

# Author Index

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### KEY TO ABBREVIATIONS USED FOR ARTICLE CLASSIFICATION

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* = Original Article	CP = Correspondence	KR = Key References
AN = Announcement	CT = Collective Review	PA = Presidential Address
CL = Classics in Thoracic Surgery	CV = Current Review	RE = Report
CR = Case Report	DI = Discussion	RV = Review of Recent Books
	ED = Editorial	
	HW = How to Do It	

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- Aaron BL, Alyono D. Ventricular perforation with valvoplasty. 1990;50:1022,CP
- Abbruzzese PA, Napoleone A, Bini RM, Annecchino FP, Merlo M, Parenzan L. Valve insufficiency after atrioventricular septal defect repair: differences between patients with and without Down's syndrome? Reply. 1990;50:854,CP
- Abel RM. *see* McCullough, Abel, & others. 1990;50:663–4,CR
- Abt AB. *see* Haluck, Richenbacher, & others. 1990;50:392–5\*
- Abukassem K. *see* González-Santos, Bastida, & others. 1990;50:995–7,HW
- Acar C. *see* Deloche, Acar, & others. 1990;50:318–9,HW
- Acar C. *see* Jebara, Acker, & others. 1990;50:336–7,CP
- Acinapura AJ. *see* Adkins, Raccaia, & others. 1990;50:299–300,CR
- Acker M. *see* Jebara, Acker, & others. 1990;50:336–7,CP
- Adams C. *see* Riveron, Adams, & others. 1990;50:465–6,CR
- Adkins MS, Raccaia JS, Acinapura AJ. Esophageal perforation in a patient with acquired immunodeficiency syndrome. 1990;50:299–300,CR
- Adler RH. Collis gastropasty: origin and evolution. 1990;50:839–42,CL
- Ahmed S. *see* Shapira, Zabatin, & others. 1990;50:268–73\*
- Ahn C, Harvey JC. Mediastinal hibernoma, a rare tumor. 1990;50:828–30,CR
- Airan B, Sharma R, Iyer KS, Kalia PK, Singh MK, Shrivastava S, Rao IM. Malignant thymoma presenting as intracardiac tumor and superior vena caval obstruction. 1990;50:989–91,CR
- Aizawa Y. *see* Miyamura, Nakagomi, & others. 1990;50:476–8,CR
- Akçevin A. *see* Bakay, Akçevin, & others. 1990;50:553–6\*
- Akpınar B. *see* Bakay, Akçevin, & others. 1990;50:553–6\*
- Ala-Kulju K. *see* Heikkinen, Sariola, & others. 1990;50:946–8\*
- Albertos J. *see* Vallejo, Gonzalez-Santos, & others. 1990;50:429–36\*
- Albertos JV. *see* González-Santos, Bastida, & others. 1990;50:360–6\*
- Albes J, Haverich A, Freihorst J, von der Hardt H, Manthey-Stiers F. Management of mycotic rupture of the ascending aorta after heart-lung transplantation. 1990;50:982–3,CR
- Albrechtsen OK. *see* Lund, Pilegaard, & others. 1990;50:396–406\*
- Alexander JA. *see* Epstein, Duncan, & others. 1990;50:94–7\*
- Alexi-Meskishvili V. Anomalous left coronary artery surgery. 1990;50:511–2,CP
- Ali I, Unruh H. Management of empyema thoracis. 1990;50:355–9\*
- Ali IM, Butler CK, Armour JA, Murphy DA. Modification of supraventricular tachyarrhythmias by stimulating atrial neurons. 1990;50:251–6\*
- Alpern JB. *see* Kolff, McClurken, & others. 1990;50:512,CP
- Altorki NK. Esophagectomy for Barrett's esophagus. Reply. 1990;50:858–9,CP
- Alyono D. *see* Aaron & Alyono. 1990;50:1022,CP
- Amodeo A, Corno A, Marino B, Carta MG, Marcelletti C. Combined repair of transposed great arteries and total anomalous pulmonary venous connection. 1990;50:820–1,CR
- Anderson KC. *see* Goodnough, Johnston, & others. 1990;50:675–83,CV
- Anderson RH. *see* Howell, Ho, & others. 1990;50:450–7\*
- Anderson RH. *see* Wilcox, Anderson, & others. 1990;50:767–70\*
- Anderson RP. *see* Fosburg, Anderson, & others. 1990;50:508,CP
- Angelini GD, Azzu AA. A fiber-optic retractor for harvesting the internal mammary artery. 1990;50:314–5,HW
- Angelini GD. *see* Bryan & Angelini. 1990;50:330,CP
- Annecchino FP. *see* Abbruzzese, Napoleone, & others. 1990;50:854,CP
- Antunes MJ. Clinical performance of St. Jude and Medtronic-Hall prostheses: a randomized comparative study. 1990;50:743–7\*
- Aota M. *see* Yokomise, Nakayama, & others. 1990;50:460–2,CR
- Arcas R. *see* González-Santos, Bastida, & others. 1990;50:360–6\*
- Arcas R. *see* González-Santos, Bastida, & others. 1990;50:995–7,HW
- Arcas R. *see* Vallejo, Gonzalez-Santos, & others. 1990;50:429–36\*
- Arcilla R. *see* DeLeon, Ilbawi, & others. 1990;50:714–9\*
- Arcilla R. *see* Ilbawi, Cua, & others. 1990;50:407–12\*
- Ardigó M. *see* Cavaliere & Ardigó. 1990;50:163–4,CP
- Armitage JM. *see* Keenan, Armitage, & others. 1990;50:748–53\*
- Armour JA. *see* Ali, Butler, & others. 1990;50:251–6\*
- Arom KV. *see* Gundry, Sequiera, & others. 1990;50:882–7,DI
- Ashton RC Jr. *see* Oz, Ashton, & others. 1990;50:74–9\*
- Astudillo J, Conill C. Role of postoperative radiation therapy in stage IIIa non-small cell lung cancer. 1990;50:618–23\*
- Atsumi N. *see* Sakakibara, Hori, & others. 1990;50:857–8,CP
- Attar S, Hankins JR, Suter CM, Coughlin TR, Sequeira A, McLaughlin JS. Esophageal perforation: a therapeutic challenge. 1990;50:45–51\*
- Attar S. *see* Daniel, Tribble, & others. 1990;50:186–9,DI
- Attar S. *see* Lammermeier, Sweeney, & others. 1990;50:222–5,DI
- Attar S. *see* Pass, Doppman, & others. 1990;50:52–7,DI
- Attar SMA. *see* Pillai, Bando, & others. 1990;50:211–4,DI
- Aubry P. *see* Deleuze, Loisan, & others. 1990;50:226–9\*
- Axen K. *see* Bevelacqua, Garritan, & others. 1990;50:602–6\*
- Aytaç A. *see* Bakay, Akçevin, & others. 1990;50:553–6\*

- Azariades M, Fessler CL, Floten HS, Starr A. Five-year results of coronary bypass grafting for patients older than 70 years: role of internal mammary artery. 1990;50:940-5\*
- Azzu AA. *see* Angelini & Azzu. 1990;50:314-5,HW
- Babu SC. *see* Moggio, Praeger, & others. 1990;50:146-8,HW
- Baciewicz PA, del Rio C, Goncalves MA, Lattouf OM, Guyton RA, Morris DC. Catastrophic thrombosis of porcine aortic bioprostheses. 1990;50:817-9,CR
- Backer CL, Idriss FS, Zales VR, Mavroudis C. Cardiac transplantation for hypoplastic left heart syndrome: a modified technique. 1990;50:894-8\*
- Bahnson HT. *see* Keenan, Armitage, & others. 1990;50:748-53\*
- Bailey LL. *see* Gundry, Sequiera, & others. 1990;50:882-7\*
- Bailey PV. *see* Weber, Connors, & others. 1990;50:720-3\*
- Bailey WW. *see* Tennenberg, Clardy, & others. 1990;50:597-601\*
- Bakay C, Akçevin A, Süzer K, Paker T, Türkoğlu H, Akpınar B, Aytas A, Demiroğlu C. Combined internal mammary artery graft for coronary artery revascularization. 1990;50:553-6\*
- Baker JE, Boerboom LE, Olinger GN. Cardioplegia-induced damage to ischemic immature myocardium is independent of oxygen availability. 1990;50:934-9\*
- Bando K. *see* Pillai, Bando, & others. 1990;50:211-4\*
- Barcenas CG. *see* Duncan, Burnett, & others. 1990;50:667-9,HW
- Barner HB. *see* D'Orazio, Naunheim, & others. 1990;50:984-6,CR
- Barner HB. *see* Fiore, Naunheim, & others. 1990;50:771-5\*
- Barner HB. *see* Fosburg, Anderson, & others. 1990;50:508,CP
- Baroni CD. *see* Pescarmona, Rendina, & others. 1990;50:534-8\*
- Barratt-Boyes BG. Choreoathetosis as a complication of cardiopulmonary bypass. 1990;50:693-4,ED
- Bartlett RH. *see* Delius, Zwischenberger, & others. 1990;50:791-5\*
- Bastida E. *see* González-Santos, Bastida, & others. 1990;50:360-6\*
- Bastida E. *see* González-Santos, Bastida, & others. 1990;50:995-7,HW
- Bastida ME. *see* Vallejo, Gonzalez-Santos, & others. 1990;50:429-36\*
- Bauer E. *see* Carrel, Decurtins, & others. 1990;50:658-60,CR
- Baumgartner F, Sheppard B, de Virgilio C, Esrig B, Harrier D, Nelson RJ, Robertson JM. Tracheal and main bronchial disruptions after blunt chest trauma: presentation and management. 1990;50:569-74\*
- Baumgartner WA. *see* Pillai, Bando, & others. 1990;50:211-4\*
- Baumgartner WA. *see* Lammermeier, Sweeney, & others. 1990;50:222-5,DI
- Baxter R, McFadden PM, Gradman M, Wright A. Scimitar syndrome: cine magnetic resonance imaging demonstration of anomalous pulmonary venous drainage. 1990;50:121-3,CR
- Becker AE. *see* van de Wal, Smith, & others. 1990;50:98-102\*
- Behrendt DM. *see* Delius, Zwischenberger, & others. 1990;50:791-5\*
- Béland MJ. *see* Tchervenkova, Béland, & others. 1990;50:822-5,CR
- Belcher P, Jones R. Hypoxemia during cardiopulmonary bypass. 1990;50:336,CP
- Bender HW Jr. *see* Horneffer, Zahka, & others. 1990;50:179-85,DI
- Bender HW Jr. *see* Stewart, Merrill, & others. 1990;50:197-203\*
- Benfield JR. Paraplegia associated with the use of oxidized cellulose in posterolateral thoracotomy incisions. Invited commentary. 1990;50:290\*
- Benfield JR. Traumatic bronchial rupture and other major thoracic injuries. 1990;50:523,ED
- Bergsland J. *see* Canver, Bhayana, & others. 1990;50:796-9\*
- Berns M. *see* Wakabayashi, Brenner, & others. 1990;50:786-90\*
- Besnainou F. *see* Deleuze, Loisançe, & others. 1990;50:226-9\*
- Bevelacqua F, Garritan S, Haas F, Salazar-Schicchi J, Axen K, Reggiani J-L. Complications after cardiac operations in patients with severe pulmonary impairment. 1990;50:602-6\*
- Bhattacharyya SS, Trivedi A, Pendkar R, Thacker JJ. Hemostatic technique for internal mammary artery anastomotic bleeding. 1990;50:316-7,HW
- Bhayana JN. *see* Canver, Bhayana, & others. 1990;50:796-9\*
- Bini RM. *see* Abbruzzese, Napoleone, & others. 1990;50:854,CP
- Birovljev S. *see* Duncan, Burnett, & others. 1990;50:667-9,HW
- Björk VO. Development of an artificial heart valve. 1990;50:151-4,CL
- Blakeman BP, Sullivan HJ, Foy BK, Sobotka PA, Pifarre R. Internal mammary artery revascularization in the patient on long-term renal dialysis. 1990;50:776-8\*
- Blakestad BR. *see* Kyger & Blakestad. 1990;50:167,CP
- Bleck P. *see* Warren, Bleck, & others. 1990;50:739-42\*
- Bloch G. *see* Deleuze, Loisançe, & others. 1990;50:226-9\*
- Bloor CM. *see* Shapira, Lemole, & others. 1990;50:110-20\*
- Boerboom LE. *see* Baker, Boerboom, & others. 1990;50:934-9\*
- Bogers AJJC. *see* Sreeram, Sutherland, & others. 1990;50:579-85\*
- Boldt J, Kling D, Zickmann B, Jacobi M, Dapper F, Hempelmann G. Acute preoperative plasmapheresis and established blood conservation techniques. 1990;50:62-8\*
- Bolling SF, Kirsh MM. Alternate method for revascularization of the posterior lateral coronary artery. 1990;50:838,HW
- Bolling SF. *see* Zweng, Iannettoni, & others. 1990;50:262-7\*
- Bolooki H. *see* Attar, Hankins, & others. 1990;50:45-51,DI
- Bolooki H. *see* Coselli, Crawford, & others. 1990;50:868-81,DI
- Bolooki H. *see* Reif, Justice, & others. 1990;50:530-3,DI
- Bonato R. *see* Dan, Bonato, & others. 1990;50:637-43\*
- Borow KM. *see* Sugimoto, Little, & others. 1990;50:442-5\*
- Borst HG. *see* Schmid, Heublein, & others. 1990;50:463-4,CR
- Borst HG. *see* Sutlic, Schmid, & others. 1990;50:927-30\*
- Bortolotti U, Milano A, Mazzucco A, Guerra F, Stellin G, Talenti E, Thiene G, Gallucci V. Influence of prosthetic design on durability of the Liotta porcine valve in the mitral position. 1990;50:734-8\*
- Bortolotti U. *see* Dan, Bonato, & others. 1990;50:637-43\*
- Bos E. *see* Sreeram, Sutherland, & others. 1990;50:579-85\*
- Bove EL. *see* Delius, Zwischenberger, & others. 1990;50:791-5\*
- Bove EL. *see* Zweng, Iannettoni, & others. 1990;50:262-7\*
- Bowe P. *see* Ritchie, Bowe, & others. 1990;50:86-8\*
- Bowman GA. Coronary artery bypass grafting without splenectomy. 1990;50:330-1,CP
- Bradham RR, Locklair PR Jr, Grimbail A. Bilateral pulmonary nodules caused by *Dirofilaria immitis*. 1990;50:312-3,CR
- Bradshaw MW. *see* Coselli, Crawford, & others. 1990;50:868-81\*
- Braun P. *see* Fiore, Naunheim, & others. 1990;50:771-5\*
- Braunstein PW Jr, Sade RM, Crawford FA Jr, Oslizlok PC. Repair of supraaortic stenosis: cardiovascular morphometric and hemodynamic results. 1990;50:700-7\*
- Brawn WJ. *see* Karl, Sano, & others. 1990;50:105-9\*
- Brenner M. *see* Wakabayashi, Brenner, & others. 1990;50:786-90\*
- Bresnahan E. *see* Waldron, Coffey, & others. 1990;50:133-5,CR
- Brevard SB, Smith VC. Presumed Kawasaki disease resulting in multiple coronary artery aneurysms in an adult. 1990;50:291-2,CR
- Brodman RF. *see* Ghalili, Issenberg, & others. 1990;50:130-2,CR
- Brodsky JB, Chaplan SR, Brose WG, Mark JBD. Continuous epidural hydromorphone for postthoracotomy pain relief. 1990;50:888-93\*
- Bronstein MN. *see* Zapolanski, Fishman, & others. 1990;50:665-6,HW
- Brose WG. *see* Brodsky, Chaplan, & others. 1990;50:888-93\*



- Brown J. *see* Crowley & Brown. 1990;50:859,CP  
 Brown JW. *see* Rodefeld, Brown, & others. 1990;50:562-8\*  
 Bryan AJ, Angelini GD. Postoperative drainage and pericardial effusion. 1990;50:330,CP  
 Buckberg GD. Oxygenated cardioplegia: blood is a many splended thing. 1990;50:175-7,ED  
 Bulatovic A. *see* Rheuban, Kron, & others. 1990;50:125-6,CR  
 Burchfiel C. *see* Grover, Hammermeister, & others. 1990;50:12-28\*  
 Burnett CM. *see* Duncan, Burnett, & others. 1990;50:667-9,HW  
 Burnett CM. *see* Sweeney, Lammermeier, & others. 1990;50:7-11\*  
 Butler CK. *see* Ali, Butler, & others. 1990;50:251-6\*  
 Butz RO Jr. *see* Grover, Hammermeister, & others. 1990;50:12-28,DI
- Cachera JP. *see* Deleuze, Loisanse, & others. 1990;50:226-9\*  
 Cade DM. *see* Guiraudon, Klein, & others. 1990;50:968-71\*  
 Caldwell RL. *see* Rodefeld, Brown, & others. 1990;50:562-8\*  
 Callaghan JC. *see* Miedzinski, Callaghan, & others. 1990;50:800-7\*  
 Callard GM. *see* Ulicny, Hiratzka, & others. 1990;50:949-58\*  
 Cameron DE, Stinson DC, Greene PS, Gardner TJ. Surgical standby for percutaneous transluminal coronary angioplasty: a survey of patterns of practice. 1990;50:35-9\*  
 Cameron E. *see* Campanella, Cameron, & others. 1990;50:836-7,HW  
 Campanella C, Cameron E, Feilberg VL. Mitral prosthetic replacement in small left atria. 1990;50:836-7,HW  
 Campbell DN, Clarke DR. Use of the allograft aortic valved conduit. 1990;50:320,CL  
 Campbell JP, Salisbury BG. Congenital tracheoesophageal fistula associated with carcinoma of the lung in an adult. 1990;50:978-9,CR  
 Canver CC, Bhayana JN, Lajos TZ, Raza ST, Lewin AN, Bergsland J, Mentzer RM Jr. Pulmonary resection combined with cardiac operations. 1990;50:796-9\*  
 Cardiac Surgeons of the Department of Veterans Affairs. *see* Grover, Hammermeister, & others. 1990;50:12-28\*  
 Carpentier A. *see* Deloche, Acar, & others. 1990;50:318-9,HW  
 Carpentier A. *see* Fabiani, Jebara, & others. 1990;50:143-5,HW  
 Carpentier A. *see* Jebara, Acker, & others. 1990;50:336-7,CP  
 Carrel T, Decurtins M, Laske A, Bauer E, von Segesser L, Largiadèr F, Turina M. Liver transplantation with atrioatrial anastomosis for Budd-Chiari syndrome. 1990;50:658-60,CR  
 Carta MG. *see* Amodeo, Corno, & others. 1990;50:820-1,CR  
 Casabona R. *see* Pansini, Ottino, & others. 1990;50:590-6\*  
 Cavaliere S, Ardigó M. Endoscopic relief of airway obstruction. 1990;50:163-4,CP  
 Ceithaml EL, Midgley FM, Perry LW, Dullum MK. Intramural ventricular fibroma in infancy: survival after partial excision in 2 patients. 1990;50:471-2,CR  
 Chaplan SR. *see* Brodsky, Chaplan, & others. 1990;50:888-93\*  
 Cheung EH. *see* Gott, Pan-Chih, & others. 1990;50:348-54\*  
 Choudhury MZ. *see* Moggio, Praeger, & others. 1990;50:146-8,HW  
 Chrousos GP. *see* Pass, Doppman, & others. 1990;50:52-7\*  
 Chryssos AE. *see* Gilbert, Murray, & others. 1990;50:987-8,CR  
 Chung SY. *see* Urschel, Razzuk, & others. 1990;50:215-21\*  
 Cialfi A. *see* Fundarò, Salati, & others. 1990;50:165-6,CP  
 Cilley R. *see* Delius, Zwischenberger, & others. 1990;50:791-5\*  
 Clardy CW. *see* Tennenberg, Clardy, & others. 1990;50:597-601\*  
 Clark RE. *see* Coselli, Crawford, & others. 1990;50:868-81,DI  
 Clark RE. *see* DeBoer, Robbins, & others. 1990;50:69-73\*  
 Clark RE. *see* Gundry, Sequiera, & others. 1990;50:882-7,DI
- Clarke DR. Anomalous left coronary artery surgery. Reply. 1990;50:512,CP  
 Clarke DR. *see* Campbell & Clarke. 1990;50:320,CL  
 Clarke DR. *see* Stewart, Merrill, & others. 1990;50:197-203,DI  
 Clarke E. *see* Rasch, Grover, & others. 1990;50:127-9,CR  
 Clevenger FW, Othersen HB Jr, Smith CD. Relief of tracheal compression by aortopexy. 1990;50:524-9\*  
 Coady C. *see* Haan, Lazar, & others. 1990;50:80-5\*  
 Cobanoglu A. *see* Douville, Sade, & others. 1990;50:29-34,DI  
 Cobanoglu A. *see* Horneffer, Zahka, & others. 1990;50:179-85,DI  
 Cochrane LJ, Mitchell ME, Raju S, Mansel JK. Tension pneumopericardium as a complication of single-lung transplantation. 1990;50:808-10,CR  
 Coetzee A, Roussouw G, Fourie P, Lochner A. Preservation of myocardial function and biochemistry after blood and oxygenated crystalloid cardioplegia during cardiac arrest. 1990;50:230-7\*  
 Coffey J. *see* Waldron, Coffey, & others. 1990;50:133-5,CR  
 Conill C. *see* Astudillo & Conill. 1990;50:618-23\*  
 Connors RH. *see* Weber, Connors, & others. 1990;50:720-3\*  
 Cook WA. *see* Detterbeck, Keagy, & others. 1990;50:204-10,DI  
 Cook WA. *see* Reif, Justice, & others. 1990;50:530-3,DI  
 Corno A. *see* Amodeo, Corno, & others. 1990;50:820-1,CR  
 Corno AF. *see* Douville, Sade, & others. 1990;50:29-34,DI  
 Coselli JS, Crawford ES, Williams TW Jr, Bradshaw MW, Wiemer DR, Harris RL, Safi HJ. Treatment of postoperative infection of ascending aorta and transverse aortic arch, including use of viable omentum and muscle flaps. 1990;50:868-81\*  
 Cosgrove DM. Polytetrafluoroethylene posterior annuloplasty for mitral regurgitation. Reply. 1990;50:166,CP  
 Cosgrove DM. *see* Segal, Ratliff, & others. 1990;50:653-5,CR  
 Coughlin TR. *see* Attar, Hankins, & others. 1990;50:45-51\*  
 Craddock D. Malignant fibrous histiocytoma. Reply. 1990;50:165,CP  
 Craver JM. *see* Gundry, Sequiera, & others. 1990;50:882-7,DI  
 Crawford ES. *see* Coselli, Crawford, & others. 1990;50:868-81\*  
 Crawford F. *see* Terranova & Crawford. 1990;50:337,CP  
 Crawford FA Jr. *see* Braunstein, Sade, & others. 1990;50:700-7\*  
 Crawford FA Jr. *see* Douville, Sade, & others. 1990;50:29-34\*  
 Crew AD. *see* Satur, Stubington, & others. 1990;50:1004-5,HW  
 Crisci C. *see* Massimo, Presenti, & others. 1990;50:274-6\*  
 Crisp-Lindgren N. *see* Wadough, Wadough, & others. 1990;50:543-52\*  
 Crowley D. *see* Delius, Zwischenberger, & others. 1990;50:791-5\*  
 Crowley JC, Brown J. Oxygenator failure. 1990;50:859,CP  
 Crum ME. *see* Slogoff, Reul, & others. 1990;50:911-8\*  
 Cua C. *see* Ilbawi, Cua, & others. 1990;50:407-12\*  
 Cull DL, Lally KP, Mair EA, Daidone M, Parsons DS. Tracheal reconstruction with polytetrafluoroethylene graft in dogs. 1990;50:899-901\*  
 Curry GR. *see* Slogoff, Reul, & others. 1990;50:911-8\*  
 Curtis JJ. Elevated hemidiaphragm after cardiac operations. Reply. 1990;50:167,CP  
 Curtis JJ. *see* Johnson, Schmaltz, & others. 1990;50:297-8,CR  
 Cutilletta A. *see* DeLeon, Ilbawi, & others. 1990;50:714-9\*  
 Cutilletta A. *see* Ilbawi, Cua, & others. 1990;50:407-12\*  
 Cutler GB Jr. *see* Pass, Doppman, & others. 1990;50:52-7\*
- Dabir RR, Piccione W Jr, Kittle CF. Intrathoracic tumors of the vagus nerve. 1990;50:494-7,CT  
 Daggett WM. Postinfarction ventricular septal defect repair: retrospective thoughts and historical perspectives. 1990;50:1006-9,CL  
 Daicoff GR. *see* Daniel, Tribble, & others. 1990;50:186-9,DI

- Daidone M. *see* Cull, Lally, & others. 1990;50:899-901\*
- Daily PO. *see* Shapira, Lemole, & others. 1990;50:110-20\*
- Daitoh N. *see* Yokomise, Nakayama, & others. 1990;50:460-2,CR
- Dan M, Bonato R, Mazzucco A, Bortolotti U, Faggian G, Giron G, Gallucci V. Value of transesophageal echocardiography during repair of congenital heart defects. 1990;50:637-43\*
- Daniel TM, Tribble CG, Rodgers BM. Thoracoscopy and talc poudrage for pneumothoraces and effusions. 1990;50:186-9\*
- Daniel TM. *see* Matthew, Spotnitz, & others. 1990;50:40-4\*
- Daniel TM. *see* Miller & Phillips. 1990;50:190-6,DI
- Dapper F. *see* Boldt, Kling, & others. 1990;50:62-8\*
- D'Arcangelo E. *see* Pescarmona, Rendina, & others. 1990;50:534-8\*
- Dauber IM. *see* Whitman, Martel, & others. 1990;50:303-5,CR
- Davis MV. *see* Matthew, Spotnitz, & others. 1990;50:40-4,DI
- Davis MV. *see* Stewart, Merrill, & others. 1990;50:197-203,DI
- DeBoer DA, Robbins RC, Maron BJ, McIntosh CL, Clark RE. Late results of aortic valvotomy for congenital valvar aortic stenosis. 1990;50:69-73\*
- Decurtins M. *see* Carrel, Decurtins, & others. 1990;50:658-60,CR
- Deeb GM. *see* Delius, Zwischenberger, & others. 1990;50:791-5\*
- de Guevara ACL. *see* Jorge, Ramos, & others. 1990;50:281-7\*
- DeLaney T. *see* Pass, Tochner, & others. 1990;50:687-8,CP
- DeLeon S, Ilbawi M, Arcilla R, Cutilletta A, Egel R, Wong A, Quinones J, Husayni T, Obeid M, Sulayman R, Idriss F. Choreoathetosis after deep hypothermia without circulatory arrest. 1990;50:714-9\*
- DeLeon S. *see* Ilbawi, Cua, & others. 1990;50:407-12\*
- Deleuze P, Loisanse DY, Besnainou F, Hillion ML, Aubry P, Bloch G, Cachera JP. Severe aortic stenosis in octogenarians: is operation an acceptable alternative? 1990;50:226-9\*
- Delius RE, Zwischenberger JB, Cilley R, Behrendt DM, Bove EL, Deeb GM, Crowley D, Heidelberg KP, Bartlett RH. Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients. 1990;50:791-5\*
- Deloche A, Acar C, Jebara V, Fabiani J-N, Carpentier A. Batrial transeptal approach in case of difficult exposure to the mitral valve. 1990;50:318-9,HW
- Deloche A. *see* Fabiani, Jebara, & others. 1990;50:143-5,HW
- Deloche A. *see* Jebara, Acker, & others. 1990;50:336-7,CP
- del Rio C. *see* Baciewicz, del Rio, & others. 1990;50:817-9,CR
- Dembitsky WP. *see* Shapira, Lemole, & others. 1990;50:110-20\*
- Demiroglu C. *see* Bakay, Akçevin, & others. 1990;50:553-6\*
- Detterbeck FC, Keagy BA, Paull DE, Wilcox BR. Oxygen free radical scavengers decrease reperfusion injury in lung transplantation. 1990;50:204-10\*
- Deubler E. *see* Hallfeldt, Knoefel, & others. 1990;50:688,CP
- de Vega MG. *see* Jorge, Ramos, & others. 1990;50:281-7\*
- de Virgilio C. *see* Baumgartner, Sheppard, & others. 1990;50:569-74\*
- Dickson M. *see* Fulton & Dickson. 1990;50:149-50,HW
- Dietl CA. Successful Fontan-type operation for a nonresectable right ventricular tumor. 1990;50:814-6,CR
- Dillard D. *see* Raghu & Dillard. 1990;50:647-9,CR
- Dillon ML Jr. *see* Urschel, Razzuk, & others. 1990;50:215-21,DI
- Disiere J. *see* Urschel, Razzuk, & others. 1990;50:215-21\*
- di Summa M. *see* Pansini, Ottino, & others. 1990;50:590-6\*
- Dobell ARC. *Surgery of the Chest, 5th Edition, Volume II.* 1990;50:825,RV
- Dobell ARC. *see* Tchervenkova, Béland, & others. 1990;50:822-5,CR
- Dobell ARC, Tchervenkova CI. New technique for the arterial switch operation in difficult situations. Invited commentary. 1990;50:1001,HW
- Donat W. *see* Feng, Singh, & others. 1990;50:644-6,CR
- Doppman JL. *see* Pass, Doppman, & others. 1990;50:52-7\*
- D'Orazio SE, Naunheim KS, Paletta CE, Barner HB. Squamous carcinoma metastatic to the sternum. 1990;50:984-6,CR
- Dorsey LMA. *see* Gott, Pan-Chih, & others. 1990;50:348-54\*
- Douville EC, Sade RM, Crawford FA Jr, Wiles HB. Subvalvar aortic stenosis: timing of operation. 1990;50:29-34\*
- Dralle H. *see* Siclari, Herrmann, & others. 1990;50:831-2,CR
- Dresler CM, Patterson GA, Taylor BR, Moote DJ. Complete foregut duplication. 1990;50:306-8,CR
- Drew T. *see* Feng, Singh, & others. 1990;50:644-6,CR
- Dullum MK. *see* Ceithaml, Midgley, & others. 1990;50:471-2,CR
- Duncan D. *see* Epstein, Duncan, & others. 1990;50:94-7\*
- Duncan JM, Burnett CM, Vega JD, Lonquist JL, Radovancevic B, Birovljev S, Etheridge WB, Barcnas CG, Frazier OH. Rapid placement of the Hemopump and hemofiltration cannula. 1990;50:667-9,HW
- Duncan JM. *see* Lammermeier, Sweeney, & others. 1990;50:222-5\*
- Duncan JM. *see* Sweeney, Lammermeier, & others. 1990;50:7-11\*
- Dunn EJ. *see* Ulicny, Hiratzka, & others. 1990;50:949-58\*
- Dunne T. *see* von Oppell, Pfeiffer, & others. 1990;50:902-10\*
- Eckstein PF. Postirradiation pericardiectomy. 1990;50:685,CP
- Economopoulos GC, Lewis JW Jr, Lee MW, Silverman NA. Carcinoid tumors of the thymus. 1990;50:58-61\*
- Edelman SK. *see* Slogoff, Reul, & others. 1990;50:911-8\*
- Edmunds LH Jr. Uncomfortable issues. 1990;50:173-4,ED
- Edwards FH. *see* Matthew, Spotnitz, & others. 1990;50:40-4,DI
- Egel R. *see* DeLeon, Ilbawi, & others. 1990;50:714-9\*
- Eguchi S. *see* Miyamura, Nakagomi, & others. 1990;50:476-8,CR
- Ehrenhaft JL. *see* Sellke, Lemmer, & others. 1990;50:557-61\*
- Eisenstadt RS. *see* Goodnough, Johnston, & others. 1990;50:675-83,CV
- Elkins RC, Steinberg JB, Razook JD, Ward KE, Overholt ED, Thompson WM Jr. Correction of truncus arteriosus with truncal valvar stenosis or insufficiency using two homografts. 1990;50:728-33\*
- Ellertson DG. *see* Zapolanski, Fishman, & others. 1990;50:665-6,HW
- Elliott MJ. *see* Howell, Ho, & others. 1990;50:450-7\*
- Ellis FH Jr. *see* Streitz & Ellis. 1990;50:446-9\*
- Elmqvist BA. *see* Slogoff, Reul, & others. 1990;50:911-8\*
- Eng J, Nair UR, Scott PJ, Walker DR. Intraoperative transesophageal echocardiography for hypertrophic cardiomyopathy. 1990;50:513-4,CP
- Epstein ML, Duncan D, Kanter RJ, O'Brien DJ, Alexander JA. Feasibility of reversible pulmonary artery banding: early results and intermediate-term follow-up. 1990;50:94-7\*
- Esposito RA. Elevated hemidiaphragm after cardiac operations. 1990;50:166-7,CP
- Esrig B. *see* Baumgartner, Sheppard, & others. 1990;50:569-74\*
- Estrera AS, Pass LJ, Platt MR. Systemic arterial air embolism in penetrating lung injury. 1990;50:257-61\*
- Etheridge WB. *see* Duncan, Burnett, & others. 1990;50:667-9,HW
- Everson CT. *see* Mills, Everson, & others. 1990;50:858,CP
- Faber LP. Epidural analgesia: different strokes for different folks. 1990;50:862-3,ED
- Faber LP. *see* Piccione, Faber, & others. 1990;50:417-9\*
- Faber LP. *see* Warren, Bleck, & others. 1990;50:739-42\*
- Fabiani J-N, Jebara VA, DeLoche A, Carpentier A. Use of glue without graft replacement for type A dissections: a new surgical technique. 1990;50:143-5,HW
- Fabiani J-N. *see* Deloche, Acar, & others. 1990;50:318-9,HW



- Fabiani J-N. *see* Jebara, Acker, & others. 1990;50:336-7,CP
- Faggian G. *see* Dan, Bonato, & others. 1990;50:637-43\*
- Fanning EA. *see* Miedzinski, Callaghan, & others. 1990;50:800-7\*
- Favi PP. *see* Massimo, Presenti, & others. 1990;50:274-6\*
- Feilberg VL. *see* Campanella, Cameron, & others. 1990;50:836-7,HW
- Feng WC, Singh AK, Drew T, Donat W. Swan-Ganz catheter-induced massive hemoptysis and pulmonary artery false aneurysm. 1990;50:644-6,CR
- Ferguson MK. *see* Sugimoto, Little, & others. 1990;50:442-5\*
- Ferguson TB Jr. Surgical treatment of Wolff-Parkinson-White syndrome. 1990;50:866-7,ED
- Ferguson TB. *see* Horrigan & Snow. 1990;50:695-9,DI
- Fernandez J. *see* Shapira, Lemole, & others. 1990;50:110-20\*
- Fessler CL. *see* Azariades, Fessler, & others. 1990;50:940-5\*
- Finck SJ, Mashburn JP, Kottke BA, Orszulak TA. Vein graft permeability. Reply. 1990;50:334,CP
- Finnegan P. *see* Waldron, Coffey, & others. 1990;50:133-5,CR
- Fiore AC, Naunheim KS, Taub J, Braun P, McBride LR, Pennington DG, Kaiser GC, Willman VL, Barner HB. Myocardial preservation using lidocaine blood cardioplegia. 1990;50:771-5\*
- Fishman NH. *see* Zapolanski, Fishman, & others. 1990;50:665-6,HW
- Flameng W. *see* Sukehiro & Flameng. 1990;50:374-83\*
- Flanagan TL. *see* Johnson, Teague, & others. 1990;50:277-80\*
- Flege JB Jr. *see* Ulicny, Hiratzka, & others. 1990;50:949-58\*
- Floten HS. *see* Azariades, Fessler, & others. 1990;50:940-5\*
- Floten HS. *see* Hovaguimian & Floten. 1990;50:856,CP
- Forsennati PG. *see* Pansini, Ottino, & others. 1990;50:590-6\*
- Fortuny R. *see* González-Santos, Bastida, & others. 1990;50:360-6\*
- Fortuny R. *see* González-Santos, Bastida, & others. 1990;50:995-7,HW
- Fosburg RG, Anderson RP, Nolan SP, Barner HB. Certification of perfusionists. 1990;50:508,CP
- Fosse E. *see* Videm, Fosse, & others. 1990;50:387-91\*
- Fourie P. *see* Coetzee, Roussouw, & others. 1990;50:230-7\*
- Fox MH. *see* Zweng, Iannettoni, & others. 1990;50:262-7\*
- Foy BK. *see* Blakeman, Sullivan, & others. 1990;50:776-8\*
- Frascaroli G. *see* Gargiulo, Zannini, & others. 1990;50:467-8,CR
- Frater RWM. *see* Zussa, Frater, & others. 1990;50:367-73\*
- Frazier OH. *see* Duncan, Burnett, & others. 1990;50:667-9,HW
- Frazier OH. *see* Lammermeier, Sweeney, & others. 1990;50:222-5\*
- Frazier OH. *see* Sweeney, Lammermeier, & others. 1990;50:7-11\*
- Frederiksen JW. *see* Hartz, LoCicero, & others. 1990;50:437-41\*
- Freeman NJ. *see* Ghalili, Issenberg, & others. 1990;50:130-2,CR
- Freihorst J. *see* Albes, Haverich, & others. 1990;50:982-3,CR
- Friauf W. *see* Pass, Tochner, & others. 1990;50:687-8,CP
- Fujii Y. *see* Nakahara, Fujii, & others. 1990;50:309-11,CR
- Fukai I, Sano M, Niwa H, Hasegawa Y, Mizuno T, Masaoka A. Giant chest wall tumor resulting from tissue reaction to foreign bodies. 1990;50:754-6\*
- Fukai I. *see* Mizuno, Masaoka, & others. 1990;50:650-2,CR
- Fukuda S. *see* Koike, Suma, & others. 1990;50:384-6\*
- Fulton RL, Dickson M. A useful technique for closure of pulmonary lacerations. 1990;50:149-50,HW
- Fundarò P, Salati M, Cialfi A, Santoli C. Polytetrafluoroethylene posterior annuloplasty for mitral regurgitation. 1990;50:165-6,CP
- Gaer J, Goldstraw P. Efficacy and benefit of mediastinal computed tomography. 1990;50:508-9,CP
- Gagliardi F. *see* Ricci, Rendina, & others. 1990;50:586-9\*
- Galbraith TA. *see* Gilbert, Murray, & others. 1990;50:987-8,CR
- Gallagher KP. *see* Zweng, Iannettoni, & others. 1990;50:262-7\*
- Galloni M. *see* Zussa, Frater, & others. 1990;50:367-73\*
- Gallucci V. *see* Bortolotti, Milano, & others. 1990;50:734-8\*
- Gallucci V. *see* Dan, Bonato, & others. 1990;50:637-43\*
- Gardner TJ. *see* Cameron, Stinson, & others. 1990;50:35-9\*
- Gardner TJ. *see* Horneffer, Zahka, & others. 1990;50:179-85\*
- Gargiulo G, Zannini L, Ghiselli A, Pagano D, Frascaroli G, Pierangeli A. Tubular supraaortic aortic stenosis: replacement of ascending aorta in a young patient. 1990;50:467-8,CR
- Garibaldi AA. Efficacy of pulmonary artery versus left ventricular venting. 1990;50:685-6,CP
- Garred P. *see* Videm, Fosse, & others. 1990;50:387-91\*
- Garritan S. *see* Bevelacqua, Garritan, & others. 1990;50:602-6\*
- Garza R. *see* Putnam, Schantz, & others. 1990;50:138-40,CR
- Gay WA Jr. Aspirin, blood loss, and transfusion. 1990;50:345,ED
- Gelfand ET. *see* Miedzinski, Callaghan, & others. 1990;50:800-7\*
- Gerzić Z, Rakić S, Randjelović T. Acquired benign esophagorespiratory fistula: report of 16 consecutive cases. 1990;50:724-7\*
- Ghalili K, Issenberg HJ, Freeman NJ, Brodman RF. Isolated left carotid artery in CHARGE association: diagnosis and repair. 1990;50:130-2,CR
- Ghiselli A. *see* Gargiulo, Zannini, & others. 1990;50:467-8,CR
- Gibbons JRP. *see* Ritchie, Bowe, & others. 1990;50:86-8\*
- Giesecke NM. *see* Slogoff, Reul, & others. 1990;50:911-8\*
- Gilbert EH, Murray KD, Lucas J, Howanitz EP, Galbraith TA, Chryssos AE, Myerowitz PD. Left recurrent laryngeal nerve paralysis: an unusual presentation of histoplasmosis. 1990;50:987-8,CR
- Girod DA. *see* Rodefeld, Brown, & others. 1990;50:562-8\*
- Giron G. *see* Dan, Bonato, & others. 1990;50:637-43\*
- Glaser R. *see* Wilson, Rath, & others. 1990;50:136-7,CR
- Glatstein E. *see* Pass, Tochner, & others. 1990;50:687-8,CP
- Glines C. *see* Riveron, Adams, & others. 1990;50:465-6,CR
- Gold JP. Choice of surgical clips for mammary artery take-down. Reply. 1990;50:856-7,CP
- Goldbach M. *see* Hurlbut, Myers, & others. 1990;50:959-64\*
- Goldman SM. *see* Sutter, Goldman, & others. 1990;50:826-7,CR
- Goldsand G. *see* Miedzinski, Callaghan, & others. 1990;50:800-7\*
- Goldstraw P. *see* Gaer & Goldstraw. 1990;50:508-9,CP
- Goldstraw P. *see* Wong & Goldstraw. 1990;50:656-7,CR
- Gomi A. *see* Takeuchi, Gomi, & others. 1990;50:294-6,CR
- Goncalves MA. *see* Baciewicz, del Rio, & others. 1990;50:817-9,CR
- Gonzalez-Diego F. *see* Vallejo, Gonzalez-Santos, & others. 1990;50:429-36\*
- González-Santos JM, Bastida E, Riesgo M, Vallejo JL, Albertos JV, Fortuny R, Arcas R. Flow capacity of the human retrograde internal mammary artery: surgical considerations. 1990;50:360-6\*
- González-Santos JM, Bastida E, Vallejo JL, Fortuny R, Abukassem K, Ortega OA, Arcas R. Selective and adjustable pericardial flap to protect internal mammary artery grafts. 1990;50:995-7,HW
- Gonzalez-Santos JM. *see* Vallejo, Gonzalez-Santos, & others. 1990;50:429-36\*
- Goodnough LT, Johnston MFM, Ramsey G, Sayers MH, Eisenstadt RS, Anderson KC, Rutman RC, Silberstein LE. Guidelines for transfusion support in patients undergoing coronary artery bypass grafting. 1990;50:675-83,CV
- Gott JP, Pan-Chih, Dorsey LMA, Cheung EH, Hatcher CR Jr, Guyton RA. Cardioplegia for transplantation: failure of extracellular solution compared with Stanford or UW solution. 1990;50:348-54\*

- Gott VL. *see* Horneffer, Zahka, & others. 1990;50:179-85\*
- Gradman M. *see* Baxter, McFadden, & others. 1990;50:121-3,CR
- Graeber GM. *see* Niezgoda, McMenamin, & others. 1990;50:615-7\*
- Graeber GM. *see* Grover, Hammermeister, & others. 1990;50:12-28,DI
- Graham AM. *Vascular Surgery, Third Edition*. 1990;50:135,RV
- Graham TP Jr. *see* Stewart, Merrill, & others. 1990;50:197-203\*
- Graver LM, Tyras DH. Use of the variable-length intraluminal sutureless graft. 1990;50:624-30\*
- Greene PS. *see* Cameron, Stinson, & others. 1990;50:35-9\*
- Griffith BP. Cardiac transplantation. 1990;50:161-2,KR
- Griffith BP. Organ procurement for pulmonary transplantation. Reply. 1990;50:335-6,CP
- Griffith BP. *see* Keenan, Armitage, & others. 1990;50:748-53\*
- Grillo HC. *see* Mathisen & Grillo. 1990;50:164,CP
- Grimball A. *see* Bradham, Locklair, & others. 1990;50:312-3,CR
- Grover FL, Hammermeister KE, Burchfiel C. Cardiac Surgeons of the Department of Veterans Affairs. Initial report of the Veterans Administration preoperative risk assessment study for cardiac surgery. 1990;50:12-28\*
- Grover FL. *see* Rasch, Grover, & others. 1990;50:127-9,CR
- Grunkemeier GL. *see* Ulicny, Hiratzka, & others. 1990;50:949-58\*
- Guerra F. *see* Bortolotti, Milano, & others. 1990;50:734-8\*
- Guerraty A, Wechsler AS. Defining the limits of suitability of cardiac allografts. 1990;50:1-2,ED
- Guiraudon GM, Klein GJ, Yee R, Kaushik R, McLellan DG, Cade DM. Surgical epicardial ablation of left ventricular pathway using sling exposure. 1990;50:968-71\*
- Gundry SR, Sequiera A, Razzouk AM, McLaughlin JS, Bailey LL. Facile retrograde cardioplegia: transatrial cannulation of the coronary sinus. 1990;50:882-7\*
- Gundry SR. *see* Gott, Pan-Chih, & others. 1990;50:348-54,DI
- Gustafson RA. *see* Braunstein, Sade, & others. 1990;50:700-7,DI
- Gustafson RA. *see* Stewart, Merrill, & others. 1990;50:197-203,DI
- Guyton RA. *see* Baciewicz, del Rio, & others. 1990;50:817-9,CR
- Guyton RA. *see* Gott, Pan-Chih, & others. 1990;50:348-54\*
- Haan CK, Lazar HL, Rivers S, Coady C, Shemin RJ. Improved myocardial preservation during cold storage using substrate enhancement. 1990;50:80-5\*
- Haas F. *see* Bevelacqua, Garritan, & others. 1990;50:602-6\*
- Haghighi P. *see* Shapira, Lemole, & others. 1990;50:110-20\*
- Haller JA Jr. Relief of tracheal compression by aortopexy. Invited commentary. 1990;50:529\*
- Haller JA Jr. *see* Daniel, Tribble, & others. 1990;50:186-9,DI
- Hallfeldt KJ, Knoefel WT, Thetter O, Deubler E, Schweiberer L. Respiratory function after thoracic operations. 1990;50:688,CP
- Haluck RS, Richenbacher WE, Myers JL, Miller CA, Abt AB, Waldhausen JA. Results of aortic anastomoses made under tension using polydioxanone suture. 1990;50:392-5\*
- Hamilton DI. *see* van de Wal, Smith, & others. 1990;50:98-102\*
- Hammermeister KE. *see* Grover, Hammermeister, & others. 1990;50:12-28\*
- Hammon JW Jr. *see* Douville, Sade, & others. 1990;50:29-34,DI
- Hammon JW Jr. *see* Matthew, Spotnitz, & others. 1990;50:40-4,DI
- Hammon JW Jr. *see* Stewart, Merrill, & others. 1990;50:197-203\*
- Hammond GL. Repair of thoracic dissections. 1990;50:330,CP
- Hankins JR. *see* Attar, Hankins, & others. 1990;50:45-51\*
- Hankins JR. *see* Horrigan & Snow. 1990;50:695-9,DI
- Hardesty RL. *see* Keenan, Armitage, & others. 1990;50:748-53\*
- Harken AH. *see* Whitman, Martel, & others. 1990;50:303-5,CR
- Harpole DH. *see* Miller & Phillips. 1990;50:190-6,DI
- Harrier D. *see* Baumgartner, Sheppard, & others. 1990;50:569-74\*
- Harris RL. *see* Coselli, Crawford, & others. 1990;50:868-81\*
- Hartmann M. *see* Wadoudh, Wadoudh, & others. 1990;50:543-52\*
- Hartz R, LoCicero J III, Sanders JH Jr, Frederiksen JW, Joob AW, Michaelis LL. Clinical experience with portable cardiopulmonary bypass in cardiac arrest patients. 1990;50:437-41\*
- Harvey JC. *see* Ahn & Harvey. 1990;50:828-30,CR
- Hasegawa Y. *see* Fukai, Sano, & others. 1990;50:754-6\*
- Hashimoto T. *see* Mizuno, Masaoka, & others. 1990;50:650-2,CR
- Hatcher CR Jr. *see* Gott, Pan-Chih, & others. 1990;50:348-54\*
- Haupt HE. *see* Lammermeier, Sweeney, & others. 1990;50:222-5\*
- Haupt HM. *see* Sweeney, Lammermeier, & others. 1990;50:7-11\*
- Haverich A. *see* Albes, Haverich, & others. 1990;50:982-3,CR
- Hayashi R. *see* Sodeyama, Matsuo, & others. 1990;50:485-7,HW
- Hayashi Y. *see* Watanabe, Shimizu, & others. 1990;50:607-14\*
- Heidelberger KP. *see* Delius, Zwischenberger, & others. 1990;50:791-5\*
- Heikkinen L, Sariola H, Salo J, Ala-Kulju K. Morphological and histopathological aspects of aneurysms after patch aortoplasty for coarctation. 1990;50:946-8\*
- Heimansohn DA. *see* Rodefeld, Brown, & others. 1990;50:562-8\*
- Heitmiller RF, Labs JD, Lipsett PA. Vagal schwannoma. 1990;50:811-3,CR
- Hempelmann G. *see* Boldt, Kling, & others. 1990;50:62-8\*
- Henry GW. *see* Wilcox, Anderson, & others. 1990;50:767-70\*
- Herrmann G. *see* Siclari, Herrmann, & others. 1990;50:831-2,CR
- Hess J. *see* Sreeram, Sutherland, & others. 1990;50:579-85\*
- Heublein B. *see* Schmid, Heublein, & others. 1990;50:463-4,CR
- Hickey RC. *see* Putnam, Schantz, & others. 1990;50:138-40,CR
- Hillion ML. *see* Deleuze, Loisan, & others. 1990;50:226-9\*
- Hines JT. *see* Sturm, Hines, & others. 1990;50:931-3\*
- Hiratzka LF. *see* Ulicny, Hiratzka, & others. 1990;50:949-58\*
- Hirota N. *see* Shirakusa, Ueda, & others. 1990;50:420-4\*
- Hix WR. Chest wall recurrence of lung cancer after transthoracic fine needle aspiration biopsy. 1990;50:1020-1,CP
- Hizny CS. *see* Tracy, Proctor, & others. 1990;50:89-93\*
- Ho SY. *see* Howell, Ho, & others. 1990;50:450-7\*
- Hoborn J. *see* Verkkala, Mäkelä, & others. 1990;50:757-61\*
- Hopeman A. *see* Read, St. Cyr, & others. 1990;50:980-1,CR
- Hopeman A. *see* Whitman, Martel, & others. 1990;50:303-5,CR
- Hopkins RW. *see* Karlson, Hopkins, & others. 1990;50:575-8\*
- Hori M. *see* Sakakibara, Hori, & others. 1990;50:857-8,CP
- Horneffer PJ, Zahka KG, Rowe SA, Manolio TA, Gott VL, Reitz BA, Gardner TJ. Long-term results of total repair of tetralogy of Fallot in childhood. 1990;50:179-85\*
- Horowitz MD, Sosa JL, Lickstein DA. Descending necrotizing mediastinitis. 1990;50:859-60,CP
- Horrigan TP, Snow NJ. Thoracoplasty: current application to the infected pleural space. 1990;50:695-9\*
- Hovaguimian H, Floten HS. Choice of surgical clips for mammary artery take-down. 1990;50:856,CP
- Howanitz EP. *see* Gilbert, Murray, & others. 1990;50:987-8,CR
- Howell CE, Ho SY, Anderson RH, Elliott MJ. Variations within the fibrous skeleton and ventricular outflow tracts in tetralogy of Fallot. 1990;50:450-7\*
- Huedo FM. *see* Jorge, Ramos, & others. 1990;50:281-7\*
- Hurlbut D, Myers ML, Lefcoe M, Goldbach M. Pleuropulmonary morbidity: internal thoracic artery versus saphenous vein graft. 1990;50:959-64\*
- Hurwitz RA. *see* Rodefeld, Brown, & others. 1990;50:562-8\*
- Husayni T. *see* DeLeon, Ilbawi, & others. 1990;50:714-9\*
- Iannettoni MD. *see* Zweng, Iannettoni, & others. 1990;50:262-7\*
- Idezuki Y. *see* Ishizaki, Tada, & others. 1990;50:975-8,CR
- Idriss F. *see* DeLeon, Ilbawi, & others. 1990;50:714-9\*
- Idriss F. *see* Ilbawi, Cua, & others. 1990;50:407-12\*



- Idriss FS. *see* Backer, Idriss, & others. 1990;50:894-8\*
- Iida F. *see* Sodeyama, Matsuo, & others. 1990;50:485-7,HW
- Ijima H. *see* Sakakibara, Hori, & others. 1990;50:857-8,CP
- Ilbawi M, Cua C, DeLeon S, Muster A, Paul M, Cutilletta A, Arcilla R, Idriss F. Repair of complete atrioventricular septal defect with tetralogy of Fallot. 1990;50:407-12\*
- Ilbawi M. *see* DeLeon, Ilbawi, & others. 1990;50:714-9\*
- Inculet RI. *see* Lui & Inculet. 1990;50:992-4,CR
- Ino T. *see* Iwahara, Ino, & others. 1990;50:855,CP
- Inoue H, Shohtsu A, Koide S, Ogawa J, Inoue H. Resection of the superior vena cava for primary lung cancer: 5 years' survival. 1990;50:661-2,CR
- Inoue H. *see* Inoue, Shohtsu, & others. 1990;50:661-2,CR
- Inutsuka K. *see* Shirakusa, Ueda, & others. 1990;50:420-4\*
- Ishida T, Yano T, Maeda K, Kaneko S, Tateishi M, Sugimachi K. Strategy for lymphadenectomy in lung cancer three centimeters or less in diameter. 1990;50:708-13\*
- Ishida T, Yokoyama H, Kaneko S, Sugio K, Sugimachi K. Long-term results of operation for non-small cell lung cancer in the elderly. 1990;50:919-22\*
- Ishizaka K. *see* Sodeyama, Matsuo, & others. 1990;50:485-7,HW
- Ishizaki Y, Tada Y, Takagi A, Sato O, Takayama Y, Shirakawa M, Idezuki Y. Aortobronchial fistula after an aortic operation. 1990;50:975-8,CR
- Issenberg HJ. *see* Ghalili, Issenberg, & others. 1990;50:130-2,CR
- Ito K. *see* Mizuno, Masaoka, & others. 1990;50:650-2,CR
- Itoh T. *see* Ohteki, Itoh, & others. 1990;50:539-42\*
- Iwa T. *see* Watanabe, Shimizu, & others. 1990;50:607-14\*
- Iwahara M, Ino T, Yabuta K. Left ventricular outflow tract obstruction with aortic arch anomalies and ventricular septal defect. Reply. 1990;50:855,CP
- Iyer KS. *see* Airan, Sharma, & others. 1990;50:989-91,CR
- Iyer KS. *see* Karl, Iyer, & others. 1990;50:488-9,HW
- Jackson RS. *Medical Management of the Cardiac Surgical Patient*. 1990;50:819,RV
- Jacobi M. *see* Boldt, Kling, & others. 1990;50:62-8\*
- Jansen JD, Johnson FE. Fatal ectopic thymoma. 1990;50:469-70,CR
- Jaretzki A III. Thymectomy for myasthenia gravis. 1990;50:686-7,CP
- Jayanthi V. *see* Victor, Jayanthi, & others. 1990;50:512-3,CP
- Jebara VA, Acker M, Acar C, Fabiani J-N, Deloche A, Carpentier A. Inadequate flow of the internal mammary artery: another complication of sternal overretraction. 1990;50:336-7,CP
- Jebara VA. *see* Fabiani, Jebara, & others. 1990;50:143-5,HW
- Jebara V. *see* Deloche, Acar, & others. 1990;50:318-9,HW
- Jistel JR. *see* Slogoff, Reul, & others. 1990;50:911-8\*
- Johnson AM, Teague WG, Flanagan TL, McGahren ED, Kron IL. Decreased vascular compliance after reimplantation of the left lower lobe in young pigs. 1990;50:277-80\*
- Johnson FE. *see* Jansen & Johnson. 1990;50:469-70,CR
- Johnson JA, Schmaltz R, Landreneau RJ, Wright WP, Curtis JJ, Walls JT, Nawarawong W. Internal mammary artery graft to pulmonary vasculature fistula: a cause of recurrent angina. 1990;50:297-8,CR
- Johnson RG. Ultrasonic debridement during mitral valve reconstruction for calcified mitral stenosis. Invited commentary. 1990;50:925-6\*
- Johnston MFM. *see* Goodnough, Johnston, & others. 1990;50:675-83,CV
- Jonas RA. *see* Sell & Jonas. 1990;50:854-5,CP
- Jones R. *see* Belcher & Jones. 1990;50:336,CP
- Joob AW. *see* Hartz, LoCicero, & others. 1990;50:437-41\*
- Jorge RG, Ramos AS-P, de Guevara ACL, Huedo FM, de Vega MG, Romeu FP. Experimental study of a new porous tracheal prosthesis. 1990;50:281-7\*
- Joyce DH, McGrath LB. Disruption of a modified Blalock-Taussig shunt by rapid deceleration injury. 1990;50:124,CR
- Justice JL. *see* Reif, Justice, & others. 1990;50:530-3\*
- Kabeer M. *see* Victor & Kabeer. 1990;50:334-5,CP
- Kado H. *see* Yonenaga, Yasui, & others. 1990;50:238-42\*
- Kaiser GC. *see* Fiore, Naunheim, & others. 1990;50:771-5\*
- Kalia PK. *see* Airan, Sharma, & others. 1990;50:989-91,CR
- Kaneko S. *see* Ishida, Yano, & others. 1990;50:708-13\*
- Kaneko S. *see* Ishida, Yokoyama, & others. 1990;50:919-22\*
- Kanter RJ. *see* Epstein, Duncan, & others. 1990;50:94-7\*
- Kantrowitz A. Origins of intraaortic balloon pumping. 1990;50:672-4,CL
- Karl TR, Iyer KS, Sano S, Mee RBB. Infant ECMO cannulation technique allowing preservation of carotid and jugular vessels. 1990;50:488-9,HW
- Karl TR, Sano S, Brawn WJ, Mee RBB. Critical aortic stenosis in the first month of life: surgical results in 26 infants. 1990;50:105-9\*
- Karlson JA, Hopkins RW, Moran JM, Karlson KE. Long-term amiodarone administration protects against global myocardial ischemia. 1990;50:575-8\*
- Karlson KE. *see* Karlson, Hopkins, & others. 1990;50:575-8\*
- Karwande S. *see* Sweeney, Lammermeier, & others. 1990;50:7-11,DI
- Katogi T. *see* Takeuchi & Katogi. 1990;50:1000-1,HW
- Katsura H. *see* Yokomise, Nakayama, & others. 1990;50:460-2,CR
- Kaushik R. *see* Guiraudon, Klein, & others. 1990;50:968-71\*
- Kauten JR. Easy cardioplegia delivery, aortic venting, and reperfusion technique. 1990;50:833-5,HW
- Kawamoto T. *see* Taniguchi, Nakano, & others. 1990;50:779-85\*
- Kawashima Y. *see* Nakahara, Fujii, & others. 1990;50:309-11,CR
- Kawashima Y. *see* Nakano, Mitsuno, & others. 1990;50:923-6\*
- Kawashima Y. *see* Taniguchi, Nakano, & others. 1990;50:779-85\*
- Keagy BA. *General Thoracic Surgery, Third Edition*. 1990;50:68,RV
- Keagy BA. *see* Detterbeck, Keagy, & others. 1990;50:204-10\*
- Keagy BA. *see* Paull & Keagy. 1990;50:972-4,CR
- Keats AS. *see* Slogoff, Reul, & others. 1990;50:911-8\*
- Keenan RJ, Armitage JM, Trento A, Siewers RD, Hardesty RL, Bahnson HT, Griffith BP. Clinical experience with the Medtronic-Hall valve prosthesis. 1990;50:748-53\*
- Keenan W. *see* Weber, Connors, & others. 1990;50:720-3\*
- Kennedy DJ. Air contamination in open heart surgery with disposable coveralls, gowns, and drapes. Invited commentary. 1990;50:761\*
- Kennedy JH, Tedgui A, Piwnica A. Vein graft permeability. 1990;50:334,CP
- Kesler KA. *see* Turrentine, Kesler, & others. 1990;50:473-5,CR
- Kessler R. *see* Scott, Kessler, & others. 1990;50:843-51,CV
- Khonsari S, Sintek CF. Transatrial approach revisited. 1990;50:1002-3,HW
- King H. *see* Rodefild, Brown, & others. 1990;50:562-8\*
- Kirsh MM. *see* Bolling & Kirsh. 1990;50:838,HW
- Kitamura S. Presumed Kawasaki disease resulting in multiple coronary artery aneurysms in an adult. Invited commentary. 1990;50:293,CR
- Kittle CF. *see* Dabir, Piccione, & others. 1990;50:494-7,CT
- Kittle CF. *see* Warren, Bleck, & others. 1990;50:739-42\*
- Klein GJ. *see* Guiraudon, Klein, & others. 1990;50:968-71\*
- Kling D. *see* Boldt, Kling, & others. 1990;50:62-8\*
- Knoefel WT. *see* Hallfeldt, Knoefel, & others. 1990;50:688,CP
- Knudsen MA. *see* Lund, Pilegaard, & others. 1990;50:396-406\*

- Kobayashi J. *see* Taniguchi, Nakano, & others. 1990;50:779-85\*
- Koide S. *see* Inoue, Shohtsu, & others. 1990;50:661-2,CR
- Koike R. Coronary artery bypass grafting without splenectomy. Reply. 1990;50:331,CP
- Koike R, Suma H, Kondo K, Oku T, Satoh H, Fukuda S, Takeuchi A. Pharmacological response of internal mammary artery and gastroepiploic artery. 1990;50:384-6\*
- Kolff J, McClurken JB, Alpern JB. Beware centrifugal pumps: not a one-way street, but a potentially dangerous "siphon." 1990;50:512,CP
- Kondo K. *see* Koike, Suma, & others. 1990;50:384-6\*
- Koolen JJ. *see* Smulders, Moulijn, & others. 1990;50:330,CP
- Kopf G. *see* Stahl & Kopf. 1990;50:337,CP
- Kottke BA. *see* Finck, Mashburn, & others. 1990;50:334,CP
- Kron IL. *see* Johnson, Teague, & others. 1990;50:277-80\*
- Kron IL. *see* Matthew, Spotnitz, & others. 1990;50:40-4\*
- Kron IL. *see* Rheuban, Kron, & others. 1990;50:125-6,CR
- Kuroda T. *see* Sodeyama, Matsuo, & others. 1990;50:485-7,HW
- Kyger ER III. Internal mammary artery marker. 1990;50:333-4,CP
- Kyger ER III, Blakestad BR. Management of Jehovah's Witness patients. 1990;50:167,CP
- Laas J, Schmid C. Malignant fibrous histiocytoma. 1990;50:164-5,CP
- Labs JD. *see* Heitmiller, Labs, & others. 1990;50:811-3,CR
- Lajos TZ. *see* Canver, Bhayana, & others. 1990;50:796-9\*
- Lally KP. *see* Cull, Lally, & others. 1990;50:899-901\*
- Lammermeier DE, Sweeney MS, Haupt HE, Radovancevic B, Duncan JM, Frazier OH. Use of potentially infected donor hearts for cardiac transplantation. 1990;50:222-5\*
- Lammermeier DE. *see* Sweeney, Lammermeier, & others. 1990;50:7-11\*
- Landreneau RJ. *see* Johnson, Schmaltz, & others. 1990;50:297-8,CR
- Large SR. *see* Smyth, Scott, & others. 1990;50:333,CP
- Largiadèr F. *see* Carrel, Decurtins, & others. 1990;50:658-60,CR
- Laske A. *see* Carrel, Decurtins, & others. 1990;50:658-60,CR
- Latter DA. *see* Tchervenkov, Béland, & others. 1990;50:822-5,CR
- Lattouf OM. *see* Baciewicz, del Rio, & others. 1990;50:817-9,CR
- Lazar HL. Malignant fibrous histiocytoma. Reply. 1990;50:165,CP
- Lazar HL, Plehn J. Intraoperative echocardiography. 1990;50:1010-8,CV
- Lazar HL. *see* Haan, Lazar, & others. 1990;50:80-5\*
- Lee MW. *see* Economopoulos, Lewis, & others. 1990;50:58-61\*
- Lefcoe M. *see* Hurlbut, Myers, & others. 1990;50:959-64\*
- Lemmer JH Jr. *see* Sellke, Lemmer, & others. 1990;50:557-61\*
- Lemole GM. *see* Oz, Ashton, & others. 1990;50:74-9\*
- Lemole GM. *see* Shapira, Lemole, & others. 1990;50:110-20\*
- Lemole GM. *see* Shapira, Zabatino, & others. 1990;50:268-73\*
- Levitsky S. Using ICD-9-CM and CPT in the Nineties. 1990;50:519-20,ED
- Lewin AN. *see* Canver, Bhayana, & others. 1990;50:796-9\*
- Lewis JW Jr. *see* Economopoulos, Lewis, & others. 1990;50:58-61\*
- Lewis JW Jr. *see* Riveron, Adams, & others. 1990;50:465-6,CR
- Lickstein DA. *see* Horowitz, Sosa, & others. 1990;50:859-60,CP
- Lillehei CW. *see* Horneffer, Zahka, & others. 1990;50:179-85,DI
- Lipsett PA. *see* Heitmiller, Labs, & others. 1990;50:811-3,CR
- Little AG. *see* Sugimoto, Little, & others. 1990;50:442-5\*
- Lochner A. *see* Coetzee, Roussouw, & others. 1990;50:230-7\*
- LoCicero J III. Thoracoscopic treatment of spontaneous pneumothorax using carbon dioxide laser. Invited commentary. 1990;50:789-90\*
- LoCicero J III. *see* Hartz, LoCicero, & others. 1990;50:437-41\*
- Locklair PR Jr. *see* Bradham, Locklair, & others. 1990;50:312-3,CR
- Loisance DY. *see* Deleuze, Loisance, & others. 1990;50:226-9\*
- Lonquist JL. *see* Duncan, Burnett, & others. 1990;50:667-9,HW
- Lucas J. *see* Gilbert, Murray, & others. 1990;50:987-8,CR
- Lui RC, Inculet RI. Job's syndrome: a rare cause of recurrent lung abscess in childhood. 1990;50:992-4,CR
- Lund O, Pilegaard HK, Magnussen K, Knudsen MA, Nielsen TT, Albrechtsen OK. Long-term prosthesis-related and sudden cardiac-related complications after valve replacement for aortic stenosis. 1990;50:396-406\*
- Lynch V. *see* Waldron, Coffey, & others. 1990;50:133-5,CR
- Madanagopalan N. *see* Victor, Jayanthi, & others. 1990;50:512-3,CP
- Maeda K. *see* Ishida, Yano, & others. 1990;50:708-13\*
- Magnussen K. *see* Lund, Pilegaard, & others. 1990;50:396-406\*
- Magovern GJ Jr. *see* Magovern & Magovern. 1990;50:482-4,HW
- Magovern JA, Magovern GJ Jr. Diuresis in hemodynamically compromised patients: continuous furosemide infusion. 1990;50:482-4,HW
- Mahomed Y. *see* Turrentine, Kesler, & others. 1990;50:473-5,CR
- Mair EA. *see* Cull, Lally, & others. 1990;50:899-901\*
- Majid AA. Plastic struts for delayed sternal closure. 1990;50:1021,CP
- Mäkelä P. *see* Verkkala, Mäkelä, & others. 1990;50:757-61\*
- Manca G. *see* Massimo, Presenti, & others. 1990;50:274-6\*
- Manolio TA. *see* Horneffer, Zahka, & others. 1990;50:179-85\*
- Mansel JK. *see* Cochrane, Mitchell, & others. 1990;50:808-10,CR
- Mansour KA. *Thoracic Trauma*. 1990;50:1009,RV
- Mansour KA. *see* Attar, Hankins, & others. 1990;50:45-51,DI
- Mansour KA. *see* Horrigan & Snow. 1990;50:695-9,DI
- Mansour KA. *see* Matthew, Spotnitz, & others. 1990;50:40-4,DI
- Mansour KA. *see* Miller & Phillips. 1990;50:190-6,DI
- Mansour KA. *see* Randleman, Unger, & others. 1990;50:458-9,CR
- Manthey-Stiers F. *see* Albes, Haverich, & others. 1990;50:982-3,CR
- Marcelletti C. *see* Amodeo, Corno, & others. 1990;50:820-1,CR
- Marek J. *see* Read, St. Cyr, & others. 1990;50:980-1,CR
- Marino B. Valve insufficiency after atrioventricular septal defect repair: differences between patients with and without Down's syndrome? 1990;50:854,CP
- Marino B. *see* Amodeo, Corno, & others. 1990;50:820-1,CR
- Mark JBD. *see* Brodsky, Chaplan, & others. 1990;50:888-93\*
- Maron BJ. *see* DeBoer, Robbins, & others. 1990;50:69-73\*
- Marranci P. *see* Massimo, Presenti, & others. 1990;50:274-6\*
- Marsh DG. *see* Shapira, Lemole, & others. 1990;50:110-20\*
- Martel D. *see* Whitman, Martel, & others. 1990;50:303-5,CR
- Martini N. *see* McKneally, Niederhuber, & others. 1990;50:500-7,RE
- Masaoka A. *see* Fukai, Sano, & others. 1990;50:754-6\*
- Masaoka A. *see* Mizuno, Masaoka, & others. 1990;50:650-2,CR
- Mashburn JP. *see* Finck, Mashburn, & others. 1990;50:334,CP
- Massimo CG, Presenti LF, Favi PP, Ponzalli M, Marranci P, Crisci C, Poma AG, Viligiardi RG, Manca G, Zocchi C. Excision of the aortic wall in the surgical treatment of acute type-A aortic dissection. 1990;50:274-6\*
- Mathisen DJ, Grillo HC. Endoscopic relief of airway obstruction. Reply. 1990;50:164,CP
- Matsuda H. *see* Nakano, Mitsuno, & others. 1990;50:923-6\*
- Matsuda H. *see* Taniguchi, Nakano, & others. 1990;50:779-85\*
- Matsuo K. *see* Sodeyama, Matsuo, & others. 1990;50:485-7,HW
- Matthew TL, Spotnitz WD, Kron IL, Daniel TM, Tribble CG, Nolan SP. Four years' experience with fibrin sealant in thoracic and cardiovascular surgery. 1990;50:40-4\*
- Mattos SS. *see* Wilcox, Anderson, & others. 1990;50:767-70\*
- Mavroudis C. *see* Backer, Idriss, & others. 1990;50:894-8\*



- Mayer JE Jr. Cardiac transplantation for neonates with hypoplastic left heart syndrome. 1990;50:864-5,ED
- Mazzucco A. *see* Bortolotti, Milano, & others. 1990;50:734-8\*
- Mazzucco A. *see* Dan, Bonato, & others. 1990;50:637-43\*
- McBride LR. *see* Fiore, Naunheim, & others. 1990;50:771-5\*
- McClurken JB. *see* Kolff, McClurken, & others. 1990;50:512,CP
- McCullough JN, Abel RM, Rubenstein H. Polytetrafluoroethylene graft for spontaneous coronary dissection: 7-year follow-up. 1990;50:663-4,CR
- McFadden PM. *see* Baxter, McFadden, & others. 1990;50:121-3,CR
- McGahren ED. *see* Johnson, Teague, & others. 1990;50:277-80\*
- McGrath LB. *see* Joyce & McGrath. 1990;50:124,CR
- McIntosh CL. *see* DeBoer, Robbins, & others. 1990;50:69-73\*
- McKneally MF, Niederhuber JE, Roth JA, Pass HI, Martini N. Symposium on thoracic surgical oncology. 1990;50:500-7,RE
- McLaughlin JS. *see* Attar, Hankins, & others. 1990;50:45-51\*
- McLaughlin JS. *see* Gundry, Sequiera, & others. 1990;50:882-7\*
- McLellan DG. *see* Guiraudon, Klein, & others. 1990;50:968-71\*
- McMenamin P. *see* Niezgoda, McMenamin, & others. 1990;50:615-7\*
- McNamara DB. *see* Mills, Everson, & others. 1990;50:858,CP
- McNicholas KW. *see* Oz, Ashton, & others. 1990;50:74-9\*
- Mee RBB. *see* Karl, Iyer, & others. 1990;50:488-9,HW
- Mee RBB. *see* Karl, Sano, & others. 1990;50:105-9\*
- Mentzer RM Jr. *see* Canver, Bhayana, & others. 1990;50:796-9\*
- Merlo M. *see* Abbruzzese, Napoleone, & others. 1990;50:854,CP
- Merrill WH. *see* Stewart, Merrill, & others. 1990;50:197-203\*
- Meyer JA. Individual ligation technique. 1990;50:1023,CP
- Meyer JA. A practical mechanical respirator, 1929: the "iron lung." 1990;50:490-3,HV
- Michaelis LL. *see* Hartz, LoCicero, & others. 1990;50:437-41\*
- Midgley FM. *see* Ceithaml, Midgley, & others. 1990;50:471-2,CR
- Miedzinski LJ, Callaghan JC, Fanning EA, Gelfand ET, Goldsand G, Modry D, Penkoske P, Preiksaitis J, Sheehan G, Sterns L, Taylor GD, Tyrrell DLJ. Antimicrobial prophylaxis for open heart operations. 1990;50:800-7\*
- Milano A. *see* Bortolotti, Milano, & others. 1990;50:734-8\*
- Miller CA. *see* Haluck, Richenbacher, & others. 1990;50:392-5\*
- Miller JJ. Empyema thoracis. 1990;50:343-4,ED
- Miller JJ Jr, Phillips TW. Neodymium:YAG laser and brachytherapy in the management of inoperable bronchogenic carcinoma. 1990;50:190-6\*
- Mills NL, Everson CT, McNamara DB, Saroyan RM. Free gastroepiploic artery graft. 1990;50:858,CP
- Minato N. *see* Ohteki, Itoh, & others. 1990;50:539-42\*
- Minohara S. *see* Oku, Sawada, & others. 1990;50:998-9,HW
- Mitchell IM. Efficacy of pulmonary artery versus left ventricular venting. Reply. 1990;50:686,CP
- Mitchell ME. *see* Cochrane, Mitchell, & others. 1990;50:808-10,CR
- Mitsui T. *see* Sakakibara, Hori, & others. 1990;50:857-8,CP
- Mitsuno M. *see* Nakano, Mitsuno, & others. 1990;50:923-6\*
- Mitsuno M. *see* Taniguchi, Nakano, & others. 1990;50:779-85\*
- Mitts DL. *see* Ulicny, Hiratzka, & others. 1990;50:949-58\*
- Miyamoto K. *see* Yonenaga, Yasui, & others. 1990;50:238-42\*
- Miyamura H, Nakagomi M, Eguchi S, Aizawa Y. Successful surgical treatment of incessant automatic atrial tachycardia with atrial aneurysm. 1990;50:476-8,CR
- Miyata M. *see* Nakahara, Fujii, & others. 1990;50:309-11,CR
- Miyoshi S. *see* Nakahara, Fujii, & others. 1990;50:309-11,CR
- Mizuno T, Masaoka A, Hashimoto T, Shibata K, Yamakawa Y, Torii K, Fukai I, Ito K. Coexisting thymic carcinoid tumor and thymoma. 1990;50:650-2,CR
- Mizuno T. *see* Fukai, Sano, & others. 1990;50:754-6\*
- Modry D. *see* Miedzinski, Callaghan, & others. 1990;50:800-7\*
- Moggio RA, Praeger PI, Sarabu MR, Babu SC, Shah PM, Choudhury MZ. Use of the centrifugal flow pump for vena caval shunting. 1990;50:146-8,HW
- Moghadam AN. *see* Sutter, Goldman, & others. 1990;50:826-7,CR
- Mollnes TE. *see* Videm, Fosse, & others. 1990;50:387-91\*
- Moote DJ. *see* Dresler, Patterson, & others. 1990;50:306-8,CR
- Moran JM. *see* Karlson, Hopkins, & others. 1990;50:575-8\*
- Morea M. *see* Pansini, Ottino, & others. 1990;50:590-6\*
- Mori H. *see* Takeuchi, Gomi, & others. 1990;50:294-6,CR
- Morris DC. *see* Baciewicz, del Rio, & others. 1990;50:817-9,CR
- Moulijn AC. *see* Smulders, Moulijn, & others. 1990;50:330,CP
- Mulder DG. *Surgery of the Thymus*. 1990;50:1018,RV
- Mulder DG. Thymectomy for myasthenia gravis. Reply. 1990;50:687,CP
- Mullins P. *see* Smyth, Scott, & others. 1990;50:333,CP
- Murphy DA. *see* Ali, Butler, & others. 1990;50:251-6\*
- Murphy DMF. *see* Shapira, Zabatino, & others. 1990;50:268-73\*
- Murphy S. *see* Waldron, Coffey, & others. 1990;50:133-5,CR
- Murray KD. *see* Gilbert, Murray, & others. 1990;50:987-8,CR
- Muster A. *see* Ilbawi, Cua, & others. 1990;50:407-12\*
- Myerowitz PD. *see* Gilbert, Murray, & others. 1990;50:987-8,CR
- Myers JL. *see* Haluck, Richenbacher, & others. 1990;50:392-5\*
- Myers ML. *see* Hurlbut, Myers, & others. 1990;50:959-64\*
- Nagashima M. *see* Takeuchi, Gomi, & others. 1990;50:294-6,CR
- Nair UR. *see* Eng, Nair, & others. 1990;50:513-4,CP
- Nakagomi M. *see* Miyamura, Nakagomi, & others. 1990;50:476-8,CR
- Nakahara K, Fujii Y, Miyoshi S, Yoneda A, Miyata M, Kawashima Y. Acute symptoms due to a huge duplication cyst ruptured into the esophagus. 1990;50:309-11,CR
- Nakamura Y. *see* Yonenaga, Yasui, & others. 1990;50:238-42\*
- Nakano S, Mitsuno M, Taniguchi K, Matsuda H, Kawashima Y. Ultrasonic debridement during mitral valve reconstruction for calcified mitral stenosis. 1990;50:923-6\*
- Nakano S. *see* Taniguchi, Nakano, & others. 1990;50:779-85\*
- Nakayama S. *see* Yokomise, Nakayama, & others. 1990;50:460-2,CR
- Napoleone A. *see* Abbruzzese, Napoleone, & others. 1990;50:854,CP
- Natsuaki M. *see* Ohteki, Itoh, & others. 1990;50:539-42\*
- Naunheim KS. *see* D'Orazio, Naunheim, & others. 1990;50:984-6,CR
- Naunheim KS. *see* Fiore, Naunheim, & others. 1990;50:771-5\*
- Nawarawong W. *see* Johnson, Schmaltz, & others. 1990;50:297-8,CR
- Nelson RJ. *see* Baumgartner, Sheppard, & others. 1990;50:569-74\*
- Nessly ML. Infection and Cell-Saver use. 1990;50:509-10,CP
- Netto GJ. *see* Urschel, Razzuk, & others. 1990;50:215-21\*
- Niederhuber JE. *see* McKneally, Niederhuber, & others. 1990;50:500-7,RE
- Nielsen H. *see* Videm, Fosse, & others. 1990;50:387-91\*
- Nielsen TT. *see* Lund, Pilegaard, & others. 1990;50:396-406\*
- Nieman L. *see* Pass, Doppman, & others. 1990;50:52-7\*
- Niezgoda JA, McMenamin P, Graeber GM. Pharyngoesophageal perforation after blunt neck trauma. 1990;50:615-7\*
- Nikoladze GD. *see* Vishnevsky & Nikoladze. 1990;50:103-4\*
- Niwa H. *see* Fukai, Sano, & others. 1990;50:754-6\*
- Noirclerc M. Intraoperative bronchial aspiration of ruptured pulmonary hydatid cysts. Invited commentary. 1990;50:63-6\*
- Nolan SP. *see* Fosburg, Anderson, & others. 1990;50:508,CP
- Nolan SP. *see* Matthew, Spotnitz, & others. 1990;50:40-4\*
- Norton JA. *see* Pass, Doppman, & others. 1990;50:52-7\*

- Obeid M. *see* DeLeon, Ilbawi, & others. 1990;50:714-9\*
- O'Brien DJ. *see* Epstein, Duncan, & others. 1990;50:94-7\*
- Ochs D. *see* Riveron, Adams, & others. 1990;50:465-6,CR
- O'Connell TJ. *see* Zapolanski, Fishman, & others. 1990;50:665-6,HW
- Oda M. *see* Watanabe, Shimizu, & others. 1990;50:607-14\*
- Odell WD. Bronchial and thymic carcinoids and the ectopic ACTH syndrome. 1990;50:5-6,ED
- Ogawa J. *see* Inoue, Shohtsu, & others. 1990;50:661-2,CR
- Ohmi M, Ohuchi M. Recurrent thymoma in patients with myasthenia gravis. 1990;50:243-5\*
- Ohteki H, Itoh T, Natsuaki M, Minato N, Suda H. Intraoperative ultrasonic imaging of the ascending aorta in ischemic heart disease. 1990;50:539-42\*
- Ohuchi M. *see* Ohmi & Ohuchi. 1990;50:243-5\*
- Ohyama T. *see* Oku, Sawada, & others. 1990;50:998-9,CR
- Ojajärvi J. *see* Verkkala, Mäkelä, & others. 1990;50:757-61\*
- Okamura Y. *see* Takeuchi, Gomi, & others. 1990;50:294-6,CR
- Okazaki M. *see* Shirakusa, Ueda, & others. 1990;50:420-4\*
- Oku T, Sawada Y, Minohara S, Ohyama T, Takeuchi A. Easy dissection of hard and thickened pericardium on constrictive pericarditis. 1990;50:998-9,HW
- Oku T. *see* Koike, Suma, & others. 1990;50:384-6\*
- Oldfield EH. *see* Pass, Doppman, & others. 1990;50:52-7\*
- Olinger GN. *see* Baker, Boerboom, & others. 1990;50:934-9\*
- Olsen WR. *see* Reif, Justice, & others. 1990;50:530-3\*
- Orszulak TA. *Interventional and Surgical Cardiovascular Pathology: Clinical Correlations and Basic Principles*. 1990;50:790,RV
- Orszulak TA. *see* Finck, Mashburn, & others. 1990;50:334,CP
- Orszulak TA. *see* Matthew, Spotnitz, & others. 1990;50:40-4,DI
- Ortega OA. *see* González-Santos, Bastida, & others. 1990;50:995-7,HW
- Oslizlok PC. *see* Braunstein, Sade, & others. 1990;50:700-7\*
- Othersen HB Jr. *see* Clevenger, Othersen, & others. 1990;50:524-9\*
- Ott DA. *see* Sharma, Pilato, & others. 1990;50:479-81,HW
- Ottino G. *see* Pansini, Ottino, & others. 1990;50:590-6\*
- Overholt ED. *see* Elkins, Steinberg, & others. 1990;50:728-33\*
- O'Yek V. *see* Shapira, Lemole, & others. 1990;50:110-20\*
- Oz MC, Ashton RC Jr, McNicholas KW, Lemole GM. Sutureless ring graft replacement of ascending aorta and aortic arch. 1990;50:74-9\*
- Pagani M. *see* Pescarmona, Rendina, & others. 1990;50:534-8\*
- Pagano D. *see* Gargiulo, Zannini, & others. 1990;50:467-8,CR
- Pairolero PC, Trastek VF. Surgical management of chronic empyema: the role of thoracoplasty. 1990;50:689-90,ED
- Paker T. *see* Bakay, Akçevin, & others. 1990;50:553-6\*
- Paletta CE. *see* D'Orazio, Naunheim, & others. 1990;50:984-6,CR
- Pan-Chih. *see* Gott, Pan-Chih, & others. 1990;50:348-54\*
- Panke T. *see* Wilson, Rath, & others. 1990;50:136-7,CR
- Pansini S, Ottino G, Forsennati PG, Serpieri G, Zattera G, Casabona R, di Summa M, Villani M, Poletti GA, Morea M. Reoperations on heart valve prostheses: an analysis of operative risks and late results. 1990;50:590-6\*
- Parenzan L. *see* Abbruzzese, Napoleone, & others. 1990;50:854,CP
- Parsons DS. *see* Cull, Lally, & others. 1990;50:899-901\*
- Pass HI, Doppman JL, Nieman L, Stovroff M, Vetto J, Norton JA, Travis W, Chrousos GP, Oldfield EH, Cutler GB Jr. Management of the ectopic ACTH syndrome due to thoracic carcinoids. 1990;50:52-7\*
- Pass HI, Tochner Z, DeLaney T, Smith P, Friauf W, Glatstein E, Travis W. Intraoperative photodynamic therapy for malignant mesothelioma. 1990;50:687-8,CP
- Pass HI. *see* McKneally, Niederhuber, & others. 1990;50:500-7,RE
- Pass HI. *see* Miller & Phillips. 1990;50:190-6,DI
- Pass LJ. *see* Estrera, Pass, & others. 1990;50:257-61\*
- Pate JW. Risks of blood exposure to the cardiac surgical team. 1990;50:248-50\*
- Pate JW. *see* Attar, Hankins, & others. 1990;50:45-51,DI
- Pate JW. *see* Reif, Justice, & others. 1990;50:530-3,DI
- Pate JW. *see* Urschel, Razzuk, & others. 1990;50:215-21,DI
- Pate JW. *see* Walker & Pate. 1990;50:965-7\*
- Patterson GA. *see* Dresler, Patterson, & others. 1990;50:306-8,CR
- Paul M. *see* Ilbawi, Cua, & others. 1990;50:407-12\*
- Paull DE, Keagy BA. Management of aortobronchial fistula with graft replacement and omentopexy. 1990;50:972-4,CR
- Paull DE. *see* Detterbeck, Keagy, & others. 1990;50:204-10\*
- Pearson FG. *see* Urschel, Razzuk, & others. 1990;50:215-21,DI
- Pendkar R. *see* Bhattacharyya, Trivedi, & others. 1990;50:316-7,HW
- Penkoske P. *see* Miedzinski, Callaghan, & others. 1990;50:800-7\*
- Pennington DG. *see* Fiore, Naunheim, & others. 1990;50:771-5\*
- Perry JF Jr. *see* Sturm, Hines, & others. 1990;50:931-3\*
- Perry LW. *see* Ceithaml, Midgley, & others. 1990;50:471-2,CR
- Pescarmona E, Rendina EA, Venuta F, D'Arcangelo E, Pagani M, Ricci C, Rucò LP, Baroni CD. Analysis of prognostic factors and clinicopathological staging of thymoma. 1990;50:534-8\*
- Pescarmona EO. *see* Ricci, Rendina, & others. 1990;50:586-9\*
- Pfeiffer S. *see* von Oppell, Pfeiffer, & others. 1990;50:902-10\*
- Phillips TW. *see* Miller & Phillips. 1990;50:190-6\*
- Piccione W Jr, Faber LP, Warren WH. Superior vena caval reconstruction using autologous pericardium. 1990;50:417-9\*
- Piccione W Jr. *see* Dabir, Piccione, & others. 1990;50:494-7,CT
- Pierangeli A. *see* Gargiulo, Zannini, & others. 1990;50:467-8,CR
- Pifarre R. *see* Blakeman, Sullivan, & others. 1990;50:776-8\*
- Pilato M. *see* Sharma, Pilato, & others. 1990;50:479-81,HW
- Pilegaard HK. *see* Lund, Pilegaard, & others. 1990;50:396-406\*
- Pillai R, Bando K, Schueler S, Zebley M, Reitz BA, Baumgartner WA. Leukocyte depletion results in excellent heart-lung function after 12 hours of storage. 1990;50:211-4\*
- Piwnica A. *see* Kennedy, Tedgui, & others. 1990;50:334,CP
- Platt MR. *see* Estrera, Pass, & others. 1990;50:257-61\*
- Plehn J. *see* Lazar & Plehn. 1990;50:1010-8,CV
- Pochanapring A. *see* Whitman, Martel, & others. 1990;50:303-5,CR
- Polesel E. *see* Zussa, Frater, & others. 1990;50:367-73\*
- Poletti GA. *see* Pansini, Ottino, & others. 1990;50:590-6\*
- Pollard TG. *see* Rasch, Grover, & others. 1990;50:127-9,CR
- Poma AG. *see* Massimo, Presenti, & others. 1990;50:274-6\*
- Pomerantz M. Tuberculosis. 1990;50:498-9,CR
- Ponzalli M. *see* Massimo, Presenti, & others. 1990;50:274-6\*
- Popovich J Jr. *see* Riveron, Adams, & others. 1990;50:465-6,CR
- Praeger PI. *see* Moggio, Praeger, & others. 1990;50:146-8,HW
- Prager RL. *see* Reif, Justice, & others. 1990;50:530-3\*
- Preiksaitis J. *see* Miedzinski, Callaghan, & others. 1990;50:800-7\*
- Preiss P. *see* von Oppell, Pfeiffer, & others. 1990;50:902-10\*
- Presenti LF. *see* Massimo, Presenti, & others. 1990;50:274-6\*
- Pridjian AK. *see* Zweng, Iannettoni, & others. 1990;50:262-7\*
- Proctor MS. *see* Tracy, Proctor, & others. 1990;50:89-93\*
- Pruvot FR. *see* Ribet & Pruvot. 1990;50:335,CP
- Pugatch RD. *see* Shaffer, Pugatch, & others. 1990;50:301-3,CR
- Pugh WC. *see* Putnam, Schantz, & others. 1990;50:138-40,CR
- Putnam JB Jr, Schantz SP, Pugh WC, Hickey RC, Samaan NA, Garza R, Suda RW. Extended en bloc resection of a primary mediastinal parathyroid carcinoma. 1990;50:138-40,CR



- Quaegebeur JM. *see* Sreeram, Sutherland, & others. 1990;50:579-85\*
- Quinones J. *see* DeLeon, Ilbawi, & others. 1990;50:714-9\*
- Rabinsky I, Sidhu GS, Wagner RB. Mid-descending aortic traumatic aneurysms. 1990;50:155-60,CT
- Raccuia JS. *see* Adkins, Raccuia, & others. 1990;50:299-300,CR
- Radovancevic B. *see* Duncan, Burnett, & others. 1990;50:667-9,HW
- Radovancevic B. *see* Lammermeier, Sweeney, & others. 1990;50:222-5\*
- Raghu G, Dillard D. Esophagobronchial fistula and mediastinal tuberculosis. 1990;50:647-9,CR
- Raju S. *see* Cochrane, Mitchell, & others. 1990;50:808-10,CR
- Rakić S. *see* Gerzić, Rakić, & others. 1990;50:724-7\*
- Ramos AS-P. *see* Jorge, Ramos, & others. 1990;50:281-7\*
- Ramsey G. *see* Goodnough, Johnston, & others. 1990;50:675-83,CV
- Randjelović T. *see* Gerzić, Rakić, & others. 1990;50:724-7\*
- Randleman CD, Unger ER, Mansour KA. Malignant fibrous histiocytoma of the trachea. 1990;50:458-9,CR
- Rao IM. *see* Airan, Sharma, & others. 1990;50:989-91,CR
- Rasch DK, Grover FL, Schnapf BM, Clarke E, Pollard TG. Right pneumonectomy syndrome in infancy treated with an expandable prosthesis. 1990;50:127-9,CR
- Rath R. *see* Wilson, Rath, & others. 1990;50:136-7,CR
- Ratliff NB. *see* Segal, Ratliff, & others. 1990;50:653-5,CR
- Raza ST. *see* Canver, Bhayana, & others. 1990;50:796-9\*
- Razook JD. *see* Elkins, Steinberg, & others. 1990;50:728-33\*
- Razzouk AM. *see* Gundry, Sequiera, & others. 1990;50:882-7\*
- Razzuk MA. *see* Urschel, Razzuk, & others. 1990;50:215-21\*
- Read R, St. Cyr J, Marek J, Whitman G, Hopeman A. Bronchial anomaly of the right upper lobe. 1990;50:980-1,CR
- Read R, St. Cyr J, Tornabene S, Whitman G. Improved cannulation method for extracorporeal membrane oxygenation. 1990;50:670-1,HW
- Reggiani J-L. *see* Bevelacqua, Garritan, & others. 1990;50:602-6\*
- Reichart B. *see* von Oppell, Pfeiffer, & others. 1990;50:902-10\*
- Reichelt S. *see* Schmid, Heublein, & others. 1990;50:463-4,CR
- Reif J, Justice JL, Olsen WR, Prager RL. Selective monitoring of patients with suspected blunt cardiac injury. 1990;50:530-3\*
- Reitz BA. *see* Horneffer, Zahka, & others. 1990;50:179-85\*
- Reitz BA. *see* Pillai, Bando, & others. 1990;50:211-4\*
- Rendina EA. *see* Pescarmona, Rendina, & others. 1990;50:534-8\*
- Rendina EA. *see* Ricci, Rendina, & others. 1990;50:586-9\*
- Reul GJ. *see* Slogoff, Reul, & others. 1990;50:911-8\*
- Rezvan-Nobahar M. *see* Saidi & Rezvan-Nobahar. 1990;50:631-6\*
- Rheuban KS, Kron IL, Bulatovic A. Internal mammary artery bypass after the arterial switch operation. 1990;50:125-6,CR
- Ribet M. Diaphragmatic plication. 1990;50:855-6,CP
- Ribet M. Retrotracheal mediastinal goiter with contralateral extension. 1990;50:684,CP
- Ribet ME, Pruvot FR. Organ procurement for pulmonary transplantation. 1990;50:335,CP
- Ricci C, Rendina EA, Venuta F, Pescarmona EO, Gagliardi F. Diagnostic imaging and surgical treatment of dumbbell tumors of the mediastinum. 1990;50:586-9\*
- Ricci C. *see* Pescarmona, Rendina, & others. 1990;50:534-8\*
- Richenbacher WE. *see* Haluck, Richenbacher, & others. 1990;50:392-5\*
- Rico MJ. *see* Vallejo, Gonzalez-Santos, & others. 1990;50:429-36\*
- Riesgo M. *see* González-Santos, Bastida, & others. 1990;50:360-6\*
- Riesgo MJ. *see* Vallejo, Gonzalez-Santos, & others. 1990;50:429-36\*
- Ritchie AJ, Bowe P, Gibbons JRP. Prophylactic digitalization for thoracotomy: a reassessment. 1990;50:86-8\*
- Riveron FA, Adams C, Lewis JW Jr, Ochs D, Glines C, Popovich J Jr. Silastic prosthesis plombage for right postpneumonectomy syndrome. 1990;50:465-6,CR
- Rivers S. *see* Haan, Lazar, & others. 1990;50:80-5\*
- Robbins RC. *see* DeBoer, Robbins, & others. 1990;50:69-73\*
- Roberts CS, Roberts WC. Aortic dissection with the entrance tear in transverse aorta: analysis of 12 autopsy patients. 1990;50:762-6\*
- Roberts WC. *see* Roberts & Roberts. 1990;50:762-6\*
- Robertson JM. Ventricular perforation with valvoplasty. Reply. 1990;50:1022-3,CP
- Robertson JM. *see* Baumgartner, Sheppard, & others. 1990;50:569-74\*
- Robicsek F. Closed chest cardiac massage. 1990;50:332-3,CP
- Robicsek F. Double-barrel suction device. 1990;50:509,CP
- Robicsek F. *see* Sweeney, Lammermeier, & others. 1990;50:7-11,DI
- Rodefeld MD, Brown JW, Heimansohn DA, King H, Girod DA, Hurwitz RA, Caldwell RL. Cor triatriatum: clinical presentation and surgical results in 12 patients. 1990;50:562-8\*
- Rodgers BM. *see* Daniel, Tribble, & others. 1990;50:186-9\*
- Roe BB. *Transplant—A Heart Surgeon's Account of the Life-and-Death Dramas of the New Medicine.* 1990;50:203,RV
- Rogers LK. *see* Slogoff, Reul, & others. 1990;50:911-8\*
- Romeu FP. *see* Jorge, Ramos, & others. 1990;50:281-7\*
- Ross DN. Use of the allograft aortic valved conduit. Commentary. 1990;50:320-2,CL
- Roth JA. *see* McKneally, Niederhuber, & others. 1990;50:500-7,RE
- Roussouw G. *see* Coetzee, Roussouw, & others. 1990;50:230-7\*
- Rowe SA. *see* Horneffer, Zahka, & others. 1990;50:179-85\*
- Rubenstein H. *see* McCullough, Abel, & others. 1990;50:663-4,CR
- Ruco LP. *see* Pescarmona, Rendina, & others. 1990;50:534-8\*
- Rutman RC. *see* Goodnough, Johnston, & others. 1990;50:675-83,CV
- Sade RM. *see* Braunstein, Sade, & others. 1990;50:700-7\*
- Sade RM. *see* Douville, Sade, & others. 1990;50:29-34\*
- Sade RM. *see* Stewart, Merrill, & others. 1990;50:197-203,DI
- Sadow SH. *see* Reif, Justice, & others. 1990;50:530-3,DI
- Safi HJ. *see* Coselli, Crawford, & others. 1990;50:868-81\*
- Saidi F, Rezvan-Nobahar M. Intraoperative bronchial aspiration of ruptured pulmonary hydatid cysts. 1990;50:631-6\*
- Sakai K. *see* Taniguchi, Nakano, & others. 1990;50:779-85\*
- Sakaki S. *see* Taniguchi, Nakano, & others. 1990;50:779-85\*
- Sakakibara Y, Hori M, Mitsui T, Ijima H, Tsutsui T, Atsumi N. Internal mammary artery-to-pulmonary artery shunt in infants. 1990;50:857-8,CP
- Salati M. *see* Fundarò, Salati, & others. 1990;50:165-6,CP
- Salazar-Schicchi J. *see* Bevelacqua, Garritan, & others. 1990;50:602-6\*
- Salisbury BG. *see* Campbell & Salisbury. 1990;50:978-9,CR
- Salo J. *see* Heikkinen, Sariola, & others. 1990;50:946-8\*
- Samaan NA. *see* Putnam, Schantz, & others. 1990;50:138-40,CR
- Sanders JH Jr. *see* Hartz, LoCicero, & others. 1990;50:437-41\*
- Sano M. *see* Fukai, Sano, & others. 1990;50:754-6\*
- Sano S. *see* Karl, Iyer, & others. 1990;50:488-9,HW
- Sano S. *see* Karl, Sano, & others. 1990;50:105-9\*
- Santoli C. *see* Fundarò, Salati, & others. 1990;50:165-6,CP
- Santoli C. *see* Santoli, Scrofani, & others. 1990;50:1021-2,CP

- Santoli E, Scrofani R, Santoli C. How should the risk of bank blood transfusion in open heart operations be minimized? 1990;50:1021-2,CP
- Sarabu MR. *see* Moggio, Praeger, & others. 1990;50:146-8,HW
- Sariola H. *see* Heikkinen, Sariola, & others. 1990;50:946-8\*
- Saroyan RM. *see* Mills, Everson, & others. 1990;50:858,CP
- Sato O. *see* Ishizaki, Tada, & others. 1990;50:975-8,CR
- Satoh H. *see* Koike, Suma, & others. 1990;50:384-6\*
- Satur CMR, Stubington SR, Crew AD, Walker DR. Operative insertion of a transvenous left atrial pressure monitoring line. 1990;50:1004-5,HW
- Sawada Y. *see* Oku, Sawada, & others. 1990;50:998-9,HW
- Sawyers J. *see* Attar, Hankins, & others. 1990;50:45-51,DI
- Sayers MH. *see* Goodnough, Johnston, & others. 1990;50:675-83,CV
- Schantz SP. *see* Putnam, Schantz, & others. 1990;50:138-40,CR
- Schmaltz R. *see* Johnson, Schmaltz, & others. 1990;50:297-8,CR
- Schmid C, Heublein B, Reichelt S, Borst HG. Steal phenomenon caused by a parallel branch of the internal mammary artery. 1990;50:463-4,CR
- Schmid C. *see* Laas & Schmid. 1990;50:164-5,CP
- Schmid C. *see* Sutlic, Schmid, & others. 1990;50:927-30\*
- Schnapf BM. *see* Rasch, Grover, & others. 1990;50:127-9,CR
- Schofield P. *see* Smyth, Scott, & others. 1990;50:333,CP
- Schueler S. *see* Pillai, Bando, & others. 1990;50:211-4\*
- Schweiberer L. *see* Hallfeldt, Knoefel, & others. 1990;50:688,CP
- Scott JP. *see* Smyth, Scott, & others. 1990;50:333,CP
- Scott ML. *see* Matthew, Spotnitz, & others. 1990;50:40-4,DI
- Scott PJ. *see* Eng, Nair, & others. 1990;50:513-4,CP
- Scott WJ, Kessler R, Wernly JA. Blood conservation in cardiac surgery. 1990;50:843-51,CV
- Scrofani R. *see* Santoli, Scrofani, & others. 1990;50:1021-2,CP
- Sealy WC. Paradoxical hypertension after repair of coarctation of the aorta: a review of its causes. 1990;50:323-9,CV
- Sears NJ. *see* Cameron, Stinson, & others. 1990;50:35-9,DI
- See WM. *see* Whitman, Martel, & others. 1990;50:303-5,CR
- Segal GH, Ratliff NB, Cosgrove DM. Cystic medionecrosis of the coronary arteries and fatal coronary vasospasm. 1990;50:653-5,CR
- Sell JE, Jonas RA. Left ventricular outflow tract obstruction with aortic arch anomalies and ventricular septal defect. 1990;50:854-5,CP
- Sellke FW, Lemmer JH Jr, Vandenberg BF, Ehrenhaft JL. Surgical treatment of cardiac myxomas: long-term results. 1990;50:557-61\*
- Sequeira A. *see* Attar, Hankins, & others. 1990;50:45-51\*
- Sequiera A. *see* Gundry, Sequeira, & others. 1990;50:882-7\*
- Serpieri G. *see* Pansini, Ottino, & others. 1990;50:590-6\*
- Shaffer K, Pugatch RD, Sugarbaker DJ. Primary mediastinal leiomyoma. 1990;50:301-3,CR
- Shah PM. *see* Moggio, Praeger, & others. 1990;50:146-8,HW
- Shapira N, Lemole GM, Fernandez J, Daily PO, Dembitsky WP, O'Yek V, Haghighi P, Stewart J, Marsh DG, Bloor CM. Aortic valve repair for aortic stenosis in adults. 1990;50:110-20\*
- Shapira N, Zabatino SM, Ahmed S, Murphy DMF, Sullivan D, Lemole GM. Determinants of pulmonary function in patients undergoing coronary bypass operations. 1990;50:268-73\*
- Sharma BK, Pilato M, Ott DA. Surgical repair of type II truncus arteriosus without a conduit. 1990;50:479-81,HW
- Sharma R. *see* Airan, Sharma, & others. 1990;50:989-91,CR
- Sheehan G. *see* Miedzinski, Callaghan, & others. 1990;50:800-7\*
- Shemin RJ. *see* Haan, Lazar, & others. 1990;50:80-5\*
- Sheppard B. *see* Baumgartner, Sheppard, & others. 1990;50:569-74\*
- Shibata K. *see* Mizuno, Masaoka, & others. 1990;50:650-2,CR
- Shields TW. Behavior of small bronchial carcinomas. 1990;50:691-2,ED
- Shimazaki Y. *see* Taniguchi, Nakano, & others. 1990;50:779-85\*
- Shimizu J. *see* Watanabe, Shimizu, & others. 1990;50:607-14\*
- Shintani H. *see* Taniguchi, Nakano, & others. 1990;50:779-85\*
- Shiokawa Y. *see* Yonenaga, Yasui, & others. 1990;50:238-42\*
- Shirakawa M. *see* Ishizaki, Tada, & others. 1990;50:975-8,CR
- Shirakusa T, Ueda H, Takata S, Yoneda S, Inutsuka K, Hirota N, Okazaki M. Use of pedicled omental flap in treatment of empyema. 1990;50:420-4\*
- Shohtsu A. *see* Inoue, Shohtsu, & others. 1990;50:661-2,CR
- Short HD. Paraplegia associated with the use of oxidized cellulose in posterolateral thoracotomy incisions. 1990;50:288-9\*
- Shrivastava S. *see* Airan, Sharma, & others. 1990;50:989-91,CR
- Shuman RL. Cardiopulmonary cystosarcoma. 1990;50:510,CP
- Siclari F, Herrmann G, Dralle H. Acute hypercalcemic crisis after an open heart operation. 1990;50:831-2,CR
- Siddiqui A. *see* Taggart, Siddiqui, & others. 1990;50:425-8\*
- Sidhu GS. *see* Rabinsky, Sidhu, & others. 1990;50:155-60,CT
- Siegel S. *see* Zapolanski, Fishman, & others. 1990;50:665-6,HW
- Siewers RD. *see* Keenan, Armitage, & others. 1990;50:748-53\*
- Silberstein LE. *see* Goodnough, Johnston, & others. 1990;50:675-83,CV
- Silverman NA. *see* Economopoulos, Lewis, & others. 1990;50:58-61\*
- Singh AK. *see* Feng, Singh, & others. 1990;50:644-6,CR
- Singh MK. *see* Airan, Sharma, & others. 1990;50:989-91,CR
- Sintek CF. *see* Khonsari & Sintek. 1990;50:1002-3,HW
- Slogoff S, Reul GJ, Keats AS, Curry GR, Crum ME, Elmquist BA, Giesecke NM, Jistel JR, Rogers LK, Soderberg JD, Edelman SK. Role of perfusion pressure and flow in major organ dysfunction after cardiopulmonary bypass. 1990;50:911-8\*
- Smith A. *see* van de Wal, Smith, & others. 1990;50:98-102\*
- Smith CD. *see* Clevenger, Othersen, & others. 1990;50:524-9\*
- Smith JA, Tatoulis J. Right atrial perforation by a temporary epicardial pacing wire. 1990;50:141-2,CR
- Smith P. *see* Pass, Tochner, & others. 1990;50:687-8,CP
- Smith VC. *see* Brevard & Smith. 1990;50:291-2,CR
- Smulders YM, Moulijn AC, Koolen JJ. Postoperative drainage and pericardial effusion. Reply. 1990;50:330,CP
- Smyth RL, Scott JP, Mullins P, Schofield P, Large SR, Wallwork J. Pediatric heart transplantation. 1990;50:333,CP
- Snow NJ. *see* Cameron, Stinson, & others. 1990;50:35-9,DI
- Snow NJ. *see* Daniel, Tribble, & others. 1990;50:186-9,DI
- Snow NJ. *see* Horrigan & Snow. 1990;50:695-9\*
- Sobotka PA. *see* Blakeman, Sullivan, & others. 1990;50:776-8\*
- Soderberg JD. *see* Slogoff, Reul, & others. 1990;50:911-8\*
- Sodeyama H, Matsuo K, Ishizaka K, Takahashi C, Hayashi R, Kuroda T, Iida F. Platysma musculocutaneous flap for reconstruction of trachea in esophageal cancer. 1990;50:485-7,HW
- Solomkin JS. *see* Tennenberg, Clardy, & others. 1990;50:597-601\*
- Sosa JL. *see* Horowitz, Sosa, & others. 1990;50:859-60,CP
- Spotnitz WD. *see* Matthew, Spotnitz, & others. 1990;50:40-4\*
- Spotnitz WD. *see* Matthew, Spotnitz, & others. 1990;50:40-4,DI
- Spotnitz WJ. *see* Cameron, Stinson, & others. 1990;50:35-9,DI
- Sreeram N, Sutherland GR, Bogers AJJC, Stümper O, Hess J, Bos E, Quaegebeur JM. Subaortic obstruction: intraoperative echocardiography as an adjunct to operation. 1990;50:579-85\*
- St. Cyr J. *see* Read, St. Cyr, & others. 1990;50:980-1,CR



- St. Cyr J. *see* Read, St. Cyr, & others. 1990;50:670-1,HW
- Stahl RS, Kopf G. Sternotomy infections in infants. 1990;50:337,CP
- Starek PJK. The Medtronic-Hall valve: frequently used, seldom reported. 1990;50:346-7,ED
- Starr A. *see* Azariades, Fessler, & others. 1990;50:940-5\*
- Staszak VM. *see* Sugimoto, Little, & others. 1990;50:442-5\*
- Steinberg JB. *see* Elkins, Steinberg, & others. 1990;50:728-33\*
- Stellin G. *see* Bortolotti, Milano, & others. 1990;50:734-8\*
- Stephens C. *see* Weber, Connors, & others. 1990;50:720-3\*
- Sterns L. *see* Miedzinski, Callaghan, & others. 1990;50:800-7\*
- Stewart JR, Merrill WH, Hammon JW Jr, Graham TP Jr, Bender HW Jr. Reappraisal of localized resection for subvalvar aortic stenosis. 1990;50:197-203\*
- Stewart JR. *see* Braunstein, Sade, & others. 1990;50:700-7,DI
- Stewart J. *see* Shapira, Lemole, & others. 1990;50:110-20\*
- Stewart J. *see* Detterbeck, Keagy, & others. 1990;50:204-10,DI
- Stinson DC. *see* Cameron, Stinson, & others. 1990;50:35-9\*
- Stovroff M. *see* Pass, Doppman, & others. 1990;50:52-7\*
- Streitz JM Jr, Ellis FH Jr. Iatrogenic paraesophageal hiatus hernia. 1990;50:446-9\*
- Stubington SR. *see* Satur, Stubington, & others. 1990;50:1004-5,HW
- Stümper O. *see* Sreeram, Sutherland, & others. 1990;50:579-85\*
- Sturm JT, Hines JT, Perry JF Jr. Thoracic spinal fractures and aortic rupture: a significant and fatal association. 1990;50:931-3\*
- Suda H. *see* Ohteki, Itoh, & others. 1990;50:539-42\*
- Suda RW. *see* Putnam, Schantz, & others. 1990;50:138-40,CR
- Sugarbaker DJ. *see* Shaffer, Pugatch, & others. 1990;50:301-3,CR
- Sugimachi K. *see* Ishida, Yano, & others. 1990;50:708-13\*
- Sugimachi K. *see* Ishida, Yokoyama, & others. 1990;50:919-22\*
- Sugimoto JT, Little AG, Ferguson MK, Borow KM, Vallera D, Staszak VM, Weinert L. Pericardial window: mechanisms of efficacy. 1990;50:442-5\*
- Sugio K. *see* Ishida, Yokoyama, & others. 1990;50:919-22\*
- Sukehiro S, Flameng W. Effects of left ventricular assist for cardiogenic shock on cardiac function and organ blood flow distribution. 1990;50:374-83\*
- Sulayman R. *see* DeLeon, Ilbawi, & others. 1990;50:714-9\*
- Sullivan D. *see* Shapira, Zabatino, & others. 1990;50:268-73\*
- Sullivan HJ. *see* Blakeman, Sullivan, & others. 1990;50:776-8\*
- Suma H. Spasm of arterial conduits in aorta-coronary bypass grafting. Reply. 1990;50:1019-20,CP
- Suma H, Takanashi R. Arteriosclerosis of the gastroepiploic and internal thoracic arteries. 1990;50:413-6\*
- Suma H. *see* Koike, Suma, & others. 1990;50:384-6\*
- Suter CM. *see* Attar, Hankins, & others. 1990;50:45-51\*
- Sutherland GR. *see* Sreeram, Sutherland, & others. 1990;50:579-85\*
- Sutlic Z, Schmid C, Borst HG. Repair of flail anterior leaflets of tricuspid and mitral valves by cusp remodeling. 1990;50:927-30\*
- Sutter FP, Goldman SM, Werthman PE, Moghadam AN. Circumflex artery ventricular fistula and pseudoaneurysm after mitral reoperation. 1990;50:826-7,CR
- Süzer K. *see* Bakay, Akçevin, & others. 1990;50:553-6\*
- Svennevig JL. *see* Videm, Fosse, & others. 1990;50:387-91\*
- Swain JA. *Preoperative Cardiac Assessment*. 1990;50:986,RV
- Sweeney MS, Lammermeier DE, Frazier OH, Burnett CM, Haupt HM, Duncan JM. Extension of donor criteria in cardiac transplantation: surgical risk versus supply-side economics. 1990;50:7-11\*
- Sweeney MS. *see* Lammermeier, Sweeney, & others. 1990;50:222-5\*
- Tada Y. *see* Ishizaki, Tada, & others. 1990;50:975-8,CR
- Tadir Y. *see* Wakabayashi, Brenner, & others. 1990;50:786-90\*
- Taggart DP, Siddiqui A, Wheatley DJ. Low-dose preoperative aspirin therapy, postoperative blood loss, and transfusion requirements. 1990;50:425-8\*
- Takagi A. *see* Ishizaki, Tada, & others. 1990;50:975-8,CR
- Takahashi C. *see* Sodeyama, Matsuo, & others. 1990;50:485-7,HW
- Takanashi R. *see* Suma & Takanashi. 1990;50:413-6\*
- Takata S. *see* Shirakusa, Ueda, & others. 1990;50:420-4\*
- Takayama Y. *see* Ishizaki, Tada, & others. 1990;50:975-8,CR
- Takeuchi A. *see* Koike, Suma, & others. 1990;50:384-6\*
- Takeuchi A. *see* Oku, Sawada, & others. 1990;50:998-9,HW
- Takeuchi S, Katogi T. New technique for the arterial switch operation in difficult situations. 1990;50:1000-1,HW
- Takeuchi Y, Gomi A, Okamura Y, Mori H, Nagashima M. Coronary revascularization in a child with Kawasaki disease: use of right gastroepiploic artery. 1990;50:294-6,CR
- Talenti E. *see* Bortolotti, Milano, & others. 1990;50:734-8\*
- Taniguchi K, Nakano S, Matsuda H, Shimazaki Y, Sakai K, Kawamoto T, Sakaki S, Kobayashi J, Shintani H, Mitsuno M, Kawashima Y. Timing of operation for aortic regurgitation: relation to postoperative contractile state. 1990;50:779-85\*
- Taniguchi K. *see* Nakano, Mitsuno, & others. 1990;50:923-6\*
- Tarazi RY. *Atlas of Cardiothoracic Surgery*. 1990;50:412,RV
- Tateishi M. *see* Ishida, Yano, & others. 1990;50:708-13\*
- Tatoulis J. *see* Smith & Tatoulis. 1990;50:141-2,CR
- Taub J. *see* Fiore, Naunheim, & others. 1990;50:771-5\*
- Taylor BR. *see* Dresler, Patterson, & others. 1990;50:306-8,CR
- Taylor GD. *see* Miedzinski, Callaghan, & others. 1990;50:800-7\*
- Tchervenkov CI, Béland MJ, Latter DA, Dobell ARC. Norwood operation for univentricular heart with subaortic stenosis in the neonate. 1990;50:822-5,CR
- Tchervenkov CI. *see* Dobell & Tchervenkov. 1990;50:1001,HW
- Teague WG. *see* Johnson, Teague, & others. 1990;50:277-80\*
- Tedgui A. *see* Kennedy, Tedgui, & others. 1990;50:334,CP
- Tennenberg SD, Clardy CW, Bailey WW, Solomkin JS. Complement activation and lung permeability during cardiopulmonary bypass. 1990;50:597-601\*
- Terranova W, Crawford F. Sternotomy infections in infants. Reply. 1990;50:337,CP
- Thacker JJ. *see* Bhattacharyya, Trivedi, & others. 1990;50:316-7,HW
- Thermann M. Computed tomography in selecting patients for mediastinoscopy. Reply. 1990;50:163,CP
- Thetter O. *see* Hallfeldt, Knoefel, & others. 1990;50:688,CP
- Thiene G. *see* Bortolotti, Milano, & others. 1990;50:734-8\*
- Thompson WM Jr. *see* Elkins, Steinberg, & others. 1990;50:728-33\*
- Tiittanen L. *see* Verkkala, Mäkelä, & others. 1990;50:757-61\*
- Tochner Z. *see* Pass, Tochner, & others. 1990;50:687-8,CP
- Torii K. *see* Mizuno, Masaoka, & others. 1990;50:650-2,CR
- Tornabene S. *see* Read, St. Cyr, & others. 1990;50:670-1,HW
- Tracy GP, Proctor MS, Hizny CS. Reversibility of pulmonary artery hypertension in aortic stenosis after aortic valve replacement. 1990;50:89-93\*
- Tracy TF Jr. *see* Weber, Connors, & others. 1990;50:720-3\*
- Trastek VF. *see* Pairolero & Trastek. 1990;50:689-90,ED
- Travis W. *see* Pass, Doppman, & others. 1990;50:52-7\*
- Travis W. *see* Pass, Tochner, & others. 1990;50:687-8,CP
- Trento A. Pediatric heart transplantation. Reply. 1990;50:333,CP
- Trento A. *see* Keenan, Armitage, & others. 1990;50:748-53\*
- Tribble CG. *see* Daniel, Tribble, & others. 1990;50:186-9\*
- Tribble CG. *see* Matthew, Spotnitz, & others. 1990;50:40-4\*

- Trinkle JK. *see* Detterbeck, Keagy, & others. 1990;50:204-10,DI
- Trivedi A. *see* Bhattacharyya, Trivedi, & others. 1990;50:316-7,HW
- Tsutsui T. *see* Sakakibara, Hori, & others. 1990;50:857-8,CP
- Turina M. *see* Carrel, Decurtins, & others. 1990;50:658-60,CR
- Türkoğlu H. *see* Bakay, Akçevin, & others. 1990;50:553-6\*
- Turrentine MW, Kesler KA, Mahomed Y. Bronchoesophageal fistula with an esophageal web. 1990;50:473-5,CR
- Tyers GFO. Cardiopulmonary cystosarcoma. Reply. 1990;50:510-1,CP
- Tyras DH. *see* Graver & Tyras. 1990;50:624-30\*
- Tyrrell DLJ. *see* Miedzinski, Callaghan, & others. 1990;50:800-7\*
- Ueda H. *see* Shirakusa, Ueda, & others. 1990;50:420-4\*
- Ulicny KS Jr, Hiratzka LF, Williams RB, Grunkemeier GL, Flege JB Jr, Wright CB, Callard GM, Mitts DL, Dunn EJ. Sternotomy infection: poor prediction by acute phase response and delayed hypersensitivity. 1990;50:949-58\*
- Ulyot DJ. Surgical standby for coronary angioplasty. 1990;50:3-4,ED
- Unger ER. *see* Randleman, Unger, & others. 1990;50:458-9,CR
- Unruh H. *see* Ali & Unruh. 1990;50:355-9\*
- Urschel HC Jr, Razzuk MA, Netto GJ, Disiere J, Chung SY. Sclerosing mediastinitis: improved management with histoplasmosis titer and ketoconazole. 1990;50:215-21\*
- Valfré C. *see* Zussa, Frater, & others. 1990;50:367-73\*
- Vallejo JL, Gonzalez-Santos JM, Albertos J, Riesgo MJ, Bastida ME, Rico MJ, Gonzalez-Diego F, Arcas R. Eight years' experience with the Medtronic-Hall valve prosthesis. 1990;50:429-36\*
- Vallejo JL. *see* González-Santos, Bastida, & others. 1990;50:360-6\*
- Vallejo JL. *see* González-Santos, Bastida, & others. 1990;50:995-7,HW
- Vallera D. *see* Sugimoto, Little, & others. 1990;50:442-5\*
- Vandenberg BF. *see* Sellke, Lemmer, & others. 1990;50:557-61\*
- van de Wal HJCM, Smith A, Becker AE, Wilkinson JL, Hamilton DI. Morphology of pulmonary atresia with intact ventricular septum in patients dying after operation. 1990;50:98-102\*
- Van Schil P. Computed tomography in selecting patients for mediastinoscopy. 1990;50:163,CP
- Van Schil P. Retrotracheal mediastinal goiter with contralateral extension. Reply. 1990;50:684,CP
- van Son JAM. Coarctation of the aorta. 1990;50:852-3,KR
- van Son JAM, Vincent JG. Spasm of arterial conduits in aorta-coronary bypass grafting. 1990;50:1019,CP
- Vega JD. *see* Duncan, Burnett, & others. 1990;50:667-9,HW
- Venuta F. *see* Pescarmona, Rendina, & others. 1990;50:534-8\*
- Venuta F. *see* Ricci, Rendina, & others. 1990;50:586-9\*
- Verkkala K, Mäkelä P, Ojajärvi J, Tiittanen L, Hoborn J. Air contamination in open heart surgery with disposable coveralls, gowns, and drapes. 1990;50:757-61\*
- Vetto J. *see* Pass, Doppman, & others. 1990;50:52-7\*
- Victor S, Jayanthi V, Madanagopalan N. Membranotomy for Budd-Chiari syndrome. 1990;50:512-3,CP
- Victor S, Kabeer M. Is systemic cooling essential for open heart surgery? 1990;50:334-5,CP
- Videm V, Fosse E, Mollnes TE, Garred P, Svennevig JL, Nielsen H. Complement activation with bubble and membrane oxygenators in aortocoronary bypass grafting. 1990;50:387-91\*
- Viligiardi RG. *see* Massimo, Presenti, & others. 1990;50:274-6\*
- Villani M. *see* Pansini, Ottino, & others. 1990;50:590-6\*
- Vincent JG. *see* van Son & Vincent. 1990;50:1019,CP
- Vishnevsky AA, Nikoladze GD. New approach to the surgical treatment of Swyer-James-MacLeod syndrome. 1990;50:103-4\*
- von der Hardt H. *see* Albes, Haverich, & others. 1990;50:982-3,CR
- von Oppell UO, Pfeiffer S, Preiss P, Dunne T, Zilla P, Reichart B. Endothelial cell toxicity of solid-organ preservation solutions. 1990;50:902-10\*
- von Segesser L. *see* Carrel, Decurtins, & others. 1990;50:658-60,CR
- Wadouh F, Wadouh R, Hartmann M, Crisp-Lindgren N. Prevention of paraplegia during aortic operations. 1990;50:543-52\*
- Wadouh R. *see* Wadouh, Wadouh, & others. 1990;50:543-52\*
- Wagner RB. *see* Rabinsky, Sidhu, & others. 1990;50:155-60,CT
- Wakabayashi A, Brenner M, Wilson AF, Tadir Y, Berns M. Thoracoscopic treatment of spontaneous pneumothorax using carbon dioxide laser. 1990;50:786-90\*
- Waldhausen JA. *see* Haluck, Richenbacher, & others. 1990;50:392-5\*
- Waldron D, Coffey J, Murphy S, Bresnihan E, Finnegan P, Lynch V. Retrotracheal goiter: a diagnostic and therapeutic problem. 1990;50:133-5,CR
- Walker DR. *see* Eng, Nair, & others. 1990;50:513-4,CP
- Walker DR. *see* Satur, Stubington, & others. 1990;50:1004-5,HW
- Walker WA, Pate JW. Medical management of acute traumatic rupture of the aorta. 1990;50:965-7\*
- Walker WE. Paraplegia associated with thoracotomy. 1990;50:178,ED
- Walls JT. *see* Johnson, Schmaltz, & others. 1990;50:297-8,CR
- Wallwork J. *see* Smyth, Scott, & others. 1990;50:333,CP
- Ward KE. *see* Elkins, Steinberg, & others. 1990;50:728-33\*
- Warren WH, Bleck P, Kittle CF, Faber LP. Surgical management of pulmonary metastatic leiomyosarcoma with gross endobronchial extension. 1990;50:739-42\*
- Warren WH. *see* Piccione, Faber, & others. 1990;50:417-9\*
- Watanabe S. *see* Watanabe, Shimizu, & others. 1990;50:607-14\*
- Watanabe Y, Shimizu J, Oda M, Hayashi Y, Watanabe S, Yazaki U, Iwa T. Results in 104 patients undergoing bronchoplastic procedures for bronchial lesions. 1990;50:607-14\*
- Weber TR, Connors RH, Tracy TF Jr, Bailey PV, Stephens C, Keenan W. Prognostic determinants in extracorporeal membrane oxygenation for respiratory failure in newborns. 1990;50:720-3\*
- Wechsler AS. *see* Guerraty & Wechsler. 1990;50:1-2,ED
- Wechsler AS. *see* Gott, Pan-Chih, & others. 1990;50:348-54,DI
- Wechsler AS. *see* Pillai, Bando, & others. 1990;50:211-4,DI
- Weil RJ. Esophagectomy for Barrett's esophagus. 1990;50:858,CP
- Weinert L. *see* Sugimoto, Little, & others. 1990;50:442-5\*
- Weiss M. *see* Whitman, Martel, & others. 1990;50:303-5,CR
- Wernly JA. *see* Scott, Kessler, & others. 1990;50:843-51,CV
- Werthman PE. *see* Sutter, Goldman, & others. 1990;50:826-7,CR
- Wheatley DJ. *see* Taggart, Siddiqui, & others. 1990;50:425-8\*
- Whitman GJR, Martel D, Weiss M, Pochanapring A, See WM, Hopeman A, Harken AH, Dauber IM. Reversal of protamine-induced catastrophic pulmonary vasoconstriction by prostaglandin E<sub>1</sub>. 1990;50:303-5,CR
- Whitman G. *see* Read, St. Cyr, & others. 1990;50:980-1,CR
- Whitman G. *see* Read, St. Cyr, & others. 1990;50:670-1,HW
- Wick MR. Assessing the prognosis of thymomas. 1990;50:521-2,ED
- Wiemer DR. *see* Coselli, Crawford, & others. 1990;50:868-81\*
- Wilcox BR, Anderson RH, Henry GW, Mattos SS. Unusual opening of coronary sinus in atrioventricular septal defects. 1990;50:767-70\*



- Wilcox BR. *see* Detterbeck, Keagy, & others. 1990;50:204-10\*
- Wiles HB. *see* Douville, Sade, & others. 1990;50:29-34\*
- Wilkinson JL. *see* van de Wal, Smith, & others. 1990;50:98-102\*
- Williams RB. *see* Ulicny, Hiratzka, & others. 1990;50:949-58\*
- Williams TW Jr. *see* Coselli, Crawford, & others. 1990;50:868-81\*
- Willman VL. *see* Fiore, Naunheim, & others. 1990;50:771-5\*
- Wilson AF. *see* Wakabayashi, Brenner, & others. 1990;50:786-90\*
- Wilson JH, Rath R, Glaser R, Panke T. Severe hemolysis after incomplete mitral valve repair. 1990;50:136-7,CR
- Wong A. *see* DeLeon, Ilbawi, & others. 1990;50:714-9\*
- Wong PS, Goldstraw P. Left superior vena cava: a pitfall in computed tomographic diagnosis with surgical implications. 1990;50:656-7,CR
- Wright A. *see* Baxter, McFadden, & others. 1990;50:121-3,CR
- Wright CB. *see* Ulicny, Hiratzka, & others. 1990;50:949-58\*
- Wright WP. *see* Johnson, Schmaltz, & others. 1990;50:297-8,CR
- Yabuta K. *see* Iwahara, Ino, & others. 1990;50:855,CP
- Yamakawa Y. *see* Mizuno, Masaoka, & others. 1990;50:650-2,CR
- Yamamoto T. *see* Yonenaga, Yasui, & others. 1990;50:238-42\*
- Yano T. *see* Ishida, Yano, & others. 1990;50:708-13\*
- Yasui H. *see* Yonenaga, Yasui, & others. 1990;50:238-42\*
- Yazaki U. *see* Watanabe, Shimizu, & others. 1990;50:607-14\*
- Yee R. *see* Guiraudon, Klein, & others. 1990;50:968-71\*
- Yokomise H, Nakayama S, Aota M, Daitoh N, Katsura H. Systemic venous aneurysms. 1990;50:460-2,CR
- Yokoyama H. *see* Ishida, Yokoyama, & others. 1990;50:919-22\*
- Yoneda A. *see* Nakahara, Fujii, & others. 1990;50:309-11,CR
- Yoneda S. *see* Shirakusa, Ueda, & others. 1990;50:420-4\*
- Yonenaga K, Yasui H, Kado H, Nakamura Y, Shiokawa Y, Yamamoto T, Miyamoto K. Myocardial protection by retrograde cardioplegia in arterial switch operation. 1990;50:238-42\*
- Zabatino SM. *see* Shapira, Zabatino, & others. 1990;50:268-73\*
- Zahka KG. *see* Horneffer, Zahka, & others. 1990;50:179-85\*
- Zales VR. *see* Backer, Idriss, & others. 1990;50:894-8\*
- Zannini L. *see* Gargiulo, Zannini, & others. 1990;50:467-8,CR
- Zapolanski A, Fishman NH, Bronstein MN, Ellertson DG, O'Connell TJ, Siegel S. Modified pericardial closure to protect cardiovascular structures during sternal reentry. 1990;50:665-6,HW
- Zattera G. *see* Pansini, Ottino, & others. 1990;50:590-6\*
- Zebley M. *see* Pillai, Bando, & others. 1990;50:211-4\*
- Zickmann B. *see* Boldt, Kling, & others. 1990;50:62-8\*
- Zilla P. *see* von Oppell, Pfeiffer, & others. 1990;50:902-10\*
- Zocchi C. *see* Massimo, Presenti, & others. 1990;50:274-6\*
- Zuhdi N. Closed chest cardiac massage. 1990;50:331-2,CP
- Zussa C, Frater RWM, Polesel E, Galloni M, Valfré C. Artificial mitral valve chordae: experimental and clinical experience. 1990;50:367-73\*
- Zweng TN, Iannettoni MD, Bove EL, Pridjian AK, Fox MH, Bolling SF, Gallagher KP. The concentration of calcium in neonatal cardioplegia. 1990;50:262-7\*
- Zwischenberger JB. *see* Delius, Zwischenberger, & others. 1990;50:791-5\*

# Subject Index

## Volume 50 (July–December 1990)

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### KEY TO ABBREVIATIONS USED FOR ARTICLE CLASSIFICATION

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* = Original Article	CP = Correspondence	KR = Key References
AN = Announcement	CT = Collective Review	PA = Presidential Address
CL = Classics in Thoracic Surgery	CV = Current Review	RE = Report
CR = Case Report	ED = Editorial	RV = Review of Recent Books
	HW = How to Do It	

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#### Ablation

Surgical epicardial ablation of left ventricular pathway using sling exposure (Guiraudon, Klein, & others) 1990;50:968–71\*

#### Abnormalities

Cardiac transplantation for hypoplastic left heart syndrome: a modified technique (Backer, Idriss, & others) 1990;50:894–8\*

Cardiac transplantation for neonates with hypoplastic left heart syndrome (Mayer) 1990;50:864–5,ED

Congenital tracheoesophageal fistula associated with carcinoma of the lung in an adult (Campbell & Salisbury) 1990;50:978–9,CR

Late results of aortic valvotomy for congenital valvar aortic stenosis (DeBoer, Robbins, & others) 1990;50:69–73\*

Left ventricular outflow tract obstruction with aortic arch anomalies and ventricular septal defect (Sell) 1990;50:854–5,CP; Reply (Iwahara, Ino, & Yabuta) 1990;50:855,CP

Value of transesophageal echocardiography during repair of congenital heart defects (Dan, Bonato, & others) 1990;50:637–43\*

#### Abscess

Job's syndrome: a rare cause of recurrent lung abscess in childhood (Lui & Inculet) 1990;50:992–4,CR

#### Acquired immunodeficiency syndrome

Esophageal perforation in a patient with acquired immunodeficiency syndrome (Adkins, Raccuia, & Acinapura) 1990;50:299–300,CR

Tuberculosis (Pomerantz) 1990;50:498–9,KR

**ACTH syndrome, ectopic.** See Neoplastic endocrine-like syndromes.

#### Adolescent

Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Deliuss, Zwischenberger, & others) 1990;50:791–5\*

#### Age factors

Five-year results of coronary bypass grafting for patients older than 70 years: role of internal mammary artery (Azariades, Fessler, & others) 1990;50:940–5\*

Long-term results of operation for non-small cell lung cancer in the elderly (Ishida, Yokoyama, & others) 1990;50:919–22\*

Severe aortic stenosis in octogenarians: is operation an acceptable alternative? (Deleuze, Loisanse, & others) 1990;50:226–9\*

Uncomfortable issues (Edmunds) 1990;50:173–4,ED

#### Air

Air contamination in open heart surgery with disposable coveralls, gowns, and drapes (Verkkala, Mäkelä, & others) 1990;50:757–61\*

#### Airway obstruction

Endoscopic relief of airway obstruction (Cavaliere & Ardigo) 1990;50:163,CP; Reply (Mathisen & Grillo) 1990;50:164,CP

#### Amiodarone

Long-term amiodarone administration protects against global myocardial ischemia (Karlson, Hopkins, & others) 1990;50:575–8\*

#### Analgesia

Continuous epidural hydromorphone for postthoracotomy pain relief (Brodsky, Chaplan, & others) 1990;50:888–93\*

Epidural analgesia: different strokes for different folks (Faber) 1990;50:862–3,ED

#### Anastomosis

Excision of the aortic wall in the surgical treatment of acute type-A aortic dissection (Massimo, Presenti, & others) 1990;50:274–6\*

Hemostatic technique for internal mammary artery anastomotic bleeding (Bhattacharyya, Trivedi, & others) 1990;50:316–7,HW

Liver transplantation with atrioatrial anastomosis for Budd-Chiari syndrome (Carrel, Decurtins, & others) 1990;50:658–60,CR

Results of aortic anastomoses made under tension using polydioxanone suture (Haluck, Richenbacher, & others) 1990;50:392–5\*

#### Aneurysm

Circumflex artery ventricular fistula and pseudoaneurysm after mitral reoperation (Sutter, Goldman, & others) 1990;50:826–7,CR

Mid-descending aortic traumatic aneurysms (Rabinsky, Sidhu, & Wagner) 1990;50:155–60,CT

Morphological and histopathological aspects of aneurysms after patch aortoplasty for coarctation (Heikkinen, Sariola, & others) 1990;50:946–8\*

Presumed Kawasaki disease resulting in multiple coronary artery aneurysms in an adult (Brevard & Smith) 1990;50:291–3,CR

Successful surgical treatment of incessant automatic atrial tachycardia with atrial aneurysm (Miyamura, Nakagomi, & others) 1990;50:476–8,CR

Swan-Ganz catheter-induced massive hemoptysis and pulmonary artery false aneurysm (Feng, Singh, & others) 1990;50:644–6,CR

Systemic venous aneurysms (Yokomise, Nakayama, & others) 1990;50:460–2,CR



**Angina**

Internal mammary artery graft to pulmonary vasculature fistula: a cause of recurrent angina (Johnson, Schmaltz, & others) 1990;50:297-8,CR

Steal phenomenon caused by a parallel branch of the internal mammary artery (Schmid, Heublein, & others) 1990;50:463-4,CR

**Angiography**

Systemic venous aneurysms (Yokomise, Nakayama, & others) 1990;50:460-2,CR

**Angioplasty, transluminal, percutaneous coronary**

Surgical standby for coronary angioplasty (Ullyot) 1990;50:3-4,ED

Surgical standby for percutaneous transluminal coronary angioplasty: a survey of patterns of practice (Cameron, Stinson, & others) 1990;50:35-9\*

**Antibiotics**

Antimicrobial prophylaxis for open heart operations (Miedzinski, Callaghan, & others) 1990;50:800-7\*

Treatment of postoperative infection of ascending aorta and transverse aortic arch, including use of viable omentum and muscle flaps (Coselli, Crawford, & others) 1990;50:868-81\*

**Aorta**

Aortic dissection with the entrance tear in transverse aorta: analysis of 12 autopsy patients (Roberts & Roberts) 1990;50:762-6\*

Aortobronchial fistula after an aortic operation (Ishizaki, Tada, & others) 1990;50:975-7,CR

Easy cardioplegia delivery, aortic venting, and reperfusion technique (Kauten) 1990;50:833-5,HW

Excision of the aortic wall in the surgical treatment of acute type-A aortic dissection (Massimo, Presenti, & others) 1990;50:274-6\*

Intraoperative ultrasonic imaging of the ascending aorta in ischemic heart disease (Ohtaki, Itoh, & others) 1990;50:539-42\*

Management of aortobronchial fistula with graft replacement and omentopexy (Paull & Keagy) 1990;50:972-4,CR

Management of mycotic rupture of the ascending aorta after heart-lung transplantation (Albes, Haverich, & others) 1990;50:982-3,CR

Medical management of acute traumatic rupture of the aorta (Walker & Pate) 1990;50:965-7\*

Mid-descending aortic traumatic aneurysms (Rabinsky, Sidhu, & Wagner) 1990;50:155-60,CT

Prevention of paraplegia during aortic operations (Wadouh, Wadouh, & others) 1990;50:543-52\*

Results of aortic anastomoses made under tension using polydioxanone suture (Haluck, Richenbacher, & others) 1990;50:392-5\*

Sutureless ring graft replacement of ascending aorta and aortic arch (Oz, Ashton, & others) 1990;50:74-9\*

Thoracic spinal fractures and aortic rupture: a significant and fatal association (Sturm, Hines, & Perry) 1990;50:931-3\*

Treatment of postoperative infection of ascending aorta and transverse aortic arch, including use of viable omentum and muscle flaps (Coselli, Crawford, & others) 1990;50:868-81\*

Use of the variable-length intraluminal sutureless graft (Graver & Tyras) 1990;50:624-30\*

**Aorta, thoracic**

Isolated left carotid artery in CHARGE association: diagnosis and repair (Ghalili, Issenberg, & others) 1990;50:130-2,CR

Left ventricular outflow tract obstruction with aortic arch anomalies and ventricular septal defect (Sell) 1990;50:854-5,CP; Reply (Iwahara, Ino, & Yabuta) 1990;50:855,CP

Malignant fibrous histiocytoma (Laas & Schmid) 1990;50:164,CP; Reply (Lazar) 1990;50:165,CP; (Craddock) 1990;50:165,CP

Sutureless ring graft replacement of ascending aorta and aortic arch (Oz, Ashton, & others) 1990;50:74-9\*

**Aortic arch.** See Aorta, thoracic.

**Aortic coarctation**

Coarctation of the aorta (van Son) 1990;50:852-3,CR

Morphological and histopathological aspects of aneurysms after patch aortoplasty for coarctation (Heikkinen, Sariola, & others) 1990;50:946-8\*

Paradoxical hypertension after repair of coarctation of the aorta: a review of its causes (Sealy) 1990;50:323-9,CV

**Aortic valve**

Reversibility of pulmonary artery hypertension in aortic stenosis after aortic valve replacement (Tracy, Proctor, & Hizny) 1990;50:89-93\*

Severe aortic stenosis in octogenarians: is operation an acceptable alternative? (Deleuze, Loisanse, & others) 1990;50:226-9\*

Timing of operation for aortic regurgitation: relation to postoperative contractile state (Taniguchi, Nakano, & others) 1990;50:779-85\*

Uncomfortable issues (Edmunds) 1990;50:173-4,ED

**Aortic valve stenosis**

Aortic valve repair for aortic stenosis in adults (Shapira, Lemole, & others) 1990;50:110-20\*

Critical aortic stenosis in the first month of life: surgical results in 26 infants (Karl, Sano, & others) 1990;50:105-9\*

Late results of aortic valvotomy for congenital valvar aortic stenosis (DeBoer, Robbins, & others) 1990;50:69-73\*

Long-term prosthesis-related and sudden cardiac-related complications after valve replacement for aortic stenosis (Lund, Pilegaard, & others) 1990;50:396-406\*

Norwood operation for univentricular heart with subaortic stenosis in the neonate (Tchervenkov, Béland, & others) 1990;50:822-5,CR

Reappraisal of localized resection for subvalvar aortic stenosis (Stewart, Merrill, & others) 1990;50:197-203\*

Repair of supra-aortic stenosis: cardiovascular morphometric and hemodynamic results (Braunstein, Sade, & others) 1990;50:700-7\*

Tubular supra-aortic stenosis: replacement of ascending aorta in a young patient (Gargiulo, Zannini, & others) 1990;50:467-8,CR

**Aortocoronary bypass.** See Coronary artery bypass.

**Aortopexy**

Relief of tracheal compression by aortopexy (Clevenger, Othersen, & Smith) 1990;50:524-9\*

**Aprotinin**

How should the risk of bank blood transfusion in open heart operations be minimized? (Santoli, Scrofani, & Santoli) 1990;50:1021-2,CP

**Arrhythmias**

Modification of supraventricular tachyarrhythmias by stimulating atrial neurons (Ali, Butler, & others) 1990;50:251-6\*

Prophylactic digitalization for thoracotomy: a reassessment (Ritchie, Bowe, & Gibbons) 1990;50:86-8\*

**Arterial switch operation**

New technique for the arterial switch operation in difficult situations (Takeuchi & Katogi) 1990;50:1000-1,HW

**Arteries**

- Alternate method for revascularization of the posterior lateral coronary artery (Bolling & Kirsh) 1990;50:838,HW
- Anomalous left coronary artery surgery (Alexi-Meskishvili) 1990;50:511,CP; Reply (Clarke) 1990;50:512,CP
- Arteriosclerosis of the gastroepiploic and internal thoracic arteries (Suma & Takanashi) 1990;50:413-6\*
- Choice of surgical clips for mammary artery take-down (Hovaguimian & Floten) 1990;50:856,CP; Reply (Gold) 1990;50:856-7,CP
- Combined repair of transposed great arteries and total anomalous pulmonary venous connection (Amodeo, Corno, & others) 1990;50:820-1,CR
- Coronary revascularization in a child with Kawasaki disease: use of right gastroepiploic artery (Takeuchi, Gomi, & others) 1990;50:294-6,CR
- Free gastroepiploic artery graft (Mills & Everson) 1990;50:858,CP
- Internal mammary artery bypass after the arterial switch operation (Rheuban, Kron, & Bulatovic) 1990;50:125-6,CR
- Internal mammary artery-to-pulmonary artery shunt in infants (Sakakibara, Hori, & others) 1990;50:857-8,CP
- Isolated left carotid artery in CHARGE association: diagnosis and repair (Ghalili, Issenberg, & others) 1990;50:130-2,CR
- Pharmacological response of internal mammary artery and gastroepiploic artery (Koike, Suma, & others) 1990;50:384-6\*
- Pleuropulmonary morbidity: internal thoracic artery versus saphenous vein graft (Hurlbut, Myers, & others) 1990;50:959-64\*
- Presumed Kawasaki disease resulting in multiple coronary artery aneurysms in an adult (Brevard & Smith) 1990;50:291-3,CR
- Spasm of arterial conduits in aorta-coronary bypass grafting (van Son & Vincent) 1990;50:1019,CP; Reply (Suma) 1990;50:1019-200,CP
- Systemic arterial air embolism in penetrating lung injury (Estrera, Pass, & Platt) 1990;50:257-61\*

**Arteriosclerosis**

- Arteriosclerosis of the gastroepiploic and internal thoracic arteries (Suma & Takanashi) 1990;50:413-6\*

**Aspiration**

- Intraoperative bronchial aspiration of ruptured pulmonary hydatid cysts (Saidi & Rezvan-Nobahar) 1990;50:631-6\*

**Aspirin**

- Aspirin, blood loss, and transfusion (Gay) 1990;50:345,ED
- Blood conservation in cardiac surgery (Scott, Kessler, & Wernly) 1990;50:843-51,CV
- Low-dose preoperative aspirin therapy, postoperative blood loss, and transfusion requirements (Taggart, Siddiqui, & Wheatley) 1990;50:425-8\*

**Assisted circulation**

- Clinical experience with portable cardiopulmonary bypass in cardiac arrest patients (Hartz, LoCicero, & others) 1990;50:437-41\*
- Effects of left ventricular assist for cardiogenic shock on cardiac function and organ blood flow distribution (Sukehiro & Flameng) 1990;50:374-83\*
- A practical mechanical respirator, 1929: the "iron lung" (Meyer) 1990;50:490-3,HI

**Atrioventricular**

- Unusual opening of coronary sinus in atrioventricular septal defects (Wilcox, Anderson, & others) 1990;50:767-70\*
- Valve insufficiency after atrioventricular septal defect repair: differences between patients with and without Down's

syndrome? (Marino) 1990;50:854,CP; Reply (Abbruzzese, Napoleone, & others) 1990;50:854,CP

**Autopsy**

- Aortic dissection with the entrance tear in transverse aorta: analysis of 12 autopsy patients (Roberts & Roberts) 1990;50:762-6\*

**Bacteria**

- Bilateral pulmonary nodules caused by *Dirofilaria immitis* (Bradham, Locklair, & Grimboll) 1990;50:312-3,CR

**Biochemistry**

- Preservation of myocardial function and biochemistry after blood and oxygenated crystalloid cardioplegia during cardiac arrest (Coetzee, Roussouw, & others) 1990;50:230-7\*

**Biopsy**

- Chest wall recurrence of lung cancer after transthoracic fine needle aspiration biopsy (Hix) 1990;50:1020-1,CP

**Björk-Shiley valve**

- Development of an artificial heart valve (Björk) 1990;50:151-4,CL

**Blood**

- Acute preoperative plasmapheresis and established blood conservation techniques (Boldt, Kling, & others) 1990;50:62-8\*
- Aspirin, blood loss, and transfusion (Gay) 1990;50:345,ED
- Blood conservation in cardiac surgery (Scott, Kessler, & Wernly) 1990;50:843-51,CV
- Decreased vascular compliance after reimplantation of the left lower lobe in young pigs (Johnson, Teague, & others) 1990;50:277-80\*
- How should the risk of bank blood transfusion in open heart operations be minimized? (Santoli, Scrofani, & Santoli) 1990;50:1021-2,CP
- Low-dose preoperative aspirin therapy, postoperative blood loss, and transfusion requirements (Taggart, Siddiqui, & Wheatley) 1990;50:425-8\*
- Oxygenated cardioplegia: blood is a many splendored thing (Buckberg) 1990;50:175-7,ED
- Preservation of myocardial function and biochemistry after blood and oxygenated crystalloid cardioplegia during cardiac arrest (Coetzee, Roussouw, & others) 1990;50:230-7\*
- Risks of blood exposure to the cardiac surgical team (Pate) 1990;50:248-50\*

**Blood flow**

- Effects of left ventricular assist for cardiogenic shock on cardiac function and organ blood flow distribution (Sukehiro & Flameng) 1990;50:374-83\*
- Flow capacity of the human retrograde internal mammary artery: surgical considerations (González-Santos, Bastida, & others) 1990;50:360-6\*
- Inadequate flow of the internal mammary artery: another complication of sternal overretraction (Jebara, Acker, & others) 1990;50:336-7,CP

**Blood pressure**

- Flow capacity of the human retrograde internal mammary artery: surgical considerations (González-Santos, Bastida, & others) 1990;50:360-6\*

**Body fluids**

- Risks of blood exposure to the cardiac surgical team (Pate) 1990;50:248-50\*

**Book reviews**

- Atlas of Cardiothoracic Surgery*, by Edmunds, Norwood, & Low (Tarazi) 1990;50:412,RV
- General Thoracic Surgery, Third Edition*, edited by Shields (Keagy) 1990;50:68,RV



**Book reviews (cont'd)**

- Interventional and Surgical Cardiovascular Pathology: Clinical Correlations and Basic Principles*, by Schoen (Orszulak) 1990;50:790,RV
- Medical Management of the Cardiac Surgical Patient*, edited by Gray & Matloff (Jackson) 1990;50:819,RV
- Preoperative Cardiac Assessment*, edited by Mangano (Swain) 1990;50:986,RV
- Surgery of the Chest, 5th Edition, Volume II*, edited by Sabiston & Spencer (Dobell) 1990;50:825,RV
- Surgery of the Thymus*, edited by Merlini, Clarke, & Dusmet (Mulder) 1990;50:1018,RV
- Thoracic Trauma*, edited by Hood, Boyd, & Culliford (Mansour) 1990;50:1009,RV
- Transplant—A Heart Surgeon's Account of the Life-and-Death Dramas of the New Medicine*, by First (Roe) 1990;50:203,RV
- Vascular Surgery, Third Edition*, edited by Rutherford (Graham) 1990;50:135,RV

**Boxing**

- Pharyngoesophageal perforation after blunt neck trauma (Niezgoda, McMenamin, & Graeber) 1990;50:615-7\*

**Brachytherapy**

- Neodymium:YAG laser and brachytherapy in the management of inoperable bronchogenic carcinoma (Miller & Phillips) 1990;50:190-6\*

**Bronchi**

- Aortobronchial fistula after an aortic operation (Ishizaki, Tada, & others) 1990;50:975-7,CR
- Behavior of small bronchial carcinomas (Shields) 1990;50:691-2,ED
- Bronchial and thymic carcinoids and the ectopic ACTH syndrome (Odell) 1990;50:5-6,ED
- Bronchoesophageal fistula with an esophageal web (Turrentine, Kesler, & Mohamed) 1990;50:473-5,CR
- Esophagobronchial fistula and mediastinal tuberculosis (Raghu & Dillard) 1990;50:647-9,CR
- Intraoperative bronchial aspiration of ruptured pulmonary hydatid cysts (Saidi & Rezvan-Nobahar) 1990;50:631-6\*
- Neodymium:YAG laser and brachytherapy in the management of inoperable bronchogenic carcinoma (Miller & Phillips) 1990;50:190-6\*
- New approach to the surgical treatment of Swyer-James-MacLeod syndrome (Vishnevsky & Nikoladze) 1990;50:103-4\*
- Results in 104 patients undergoing bronchoplastic procedures for bronchial lesions (Watanabe, Shimizu, & others) 1990;50:607-14\*
- Surgical management of pulmonary metastatic leiomyosarcoma with gross endobronchial extension (Warren, Bleck, & others) 1990;50:739-42\*
- Tracheal and main bronchial disruptions after blunt chest trauma: presentation and management (Baumgartner, Sheppard, & others) 1990;50:569-74\*
- Traumatic bronchial rupture and other major thoracic injuries (Benfield) 1990;50:523,ED

**Budd-Chiari syndrome**

- Liver transplantation with atrioatrial anastomosis for Budd-Chiari syndrome (Carrel, Decurtins, & others) 1990;50:658-60,CR
- Membranotomy for Budd-Chiari syndrome (Victor, Jayanthi, & Madanagopalan) 1990;50:512-3,CP

**Bypass**

- Internal mammary artery bypass after the arterial switch operation (Rheuban, Kron, & Bulatovic) 1990;50:125-6,CR

**Calcium**

- Acute hypercalcemic crisis after an open heart operation (Siclari, Herrmann, & Dralle) 1990;50:831-2,CR
- The concentration of calcium in neonatal cardioplegia (Zweng, Iannettoni, & others) 1990;50:262-7\*

**Cannula**

- Facile retrograde cardioplegia: transatrial cannulation of the coronary sinus (Gundry, Sequiera, & others) 1990;50:882-7\*
- Improved cannulation method for extracorporeal membrane oxygenation (Read, St. Cyr, & others) 1990;50:670-1,HW
- Rapid placement of the Hemopump and hemofiltration cannula (Duncan, Burnett, & others) 1990;50:667-9,HW

**Carbon dioxide**

- Thoracoscopic treatment of spontaneous pneumothorax using carbon dioxide laser (Wakabayashi, Brenner, & others) 1990;50:786-90\*

**Carcinoid tumor**

- Bronchial and thymic carcinoids and the ectopic ACTH syndrome (Odell) 1990;50:5-6,ED
- Carcinoid tumors of the thymus (Economopoulos, Lewis, & others) 1990;50:58-61\*
- Management of the ectopic ACTH syndrome due to thoracic carcinoids (Pass, Doppman, & others) 1990;50:52-7\*

**Carcinoma. See Neoplasms.****Cardiomyopathy, hypertrophic**

- Subvalvar aortic stenosis: timing of operation (Douville, Sade, & others) 1990;50:29-34\*

**Cardioplegia**

- Cardioplegia for transplantation: failure of extracellular solution compared with Stanford or UW solution (Gott, Pan-Chih, & others) 1990;50:348-54\*
- Cardioplegia-induced damage to ischemic immature myocardium is independent of oxygen availability (Baker, Boerboom, & Olinger) 1990;50:934-9\*
- The concentration of calcium in neonatal cardioplegia (Zweng, Iannettoni, & others) 1990;50:262-7\*
- Easy cardioplegia delivery, aortic venting, and reperfusion technique (Kauten) 1990;50:833-5,HW
- Endothelial cell toxicity of solid-organ preservation solutions (von Oppell, Pfeiffer, & others) 1990;50:902-10\*
- Facile retrograde cardioplegia: transatrial cannulation of the coronary sinus (Gundry, Sequiera, & others) 1990;50:882-7\*
- Myocardial preservation using lidocaine blood cardioplegia (Fiore, Naunheim, & others) 1990;50:771-5\*
- Myocardial protection by retrograde cardioplegia in arterial switch operation (Yonenaga, Yasui, & others) 1990;50:238-42\*
- Oxygenated cardioplegia: blood is a many splendored thing (Buckberg) 1990;50:175-7,ED
- Preservation of myocardial function and biochemistry after blood and oxygenated crystalloid cardioplegia during cardiac arrest (Coetzee, Roussouw, & others) 1990;50:230-7\*

**Cardiopulmonary bypass**

- Antimicrobial prophylaxis for open heart operations (Miedzinski, Callaghan, & others) 1990;50:800-7\*
- Beware centrifugal pumps: not a one-way street, but a potentially dangerous "siphon" (Kolff, McClurken, & Alpern) 1990;50:512,CP
- Blood conservation in cardiac surgery (Scott, Kessler, & Wernly) 1990;50:843-51,CV
- Choreoathetosis after deep hypothermia without circulatory arrest (DeLeon, Ilbawi, & others) 1990;50:714-9\*

- Clinical experience with portable cardiopulmonary bypass in cardiac arrest patients (Hartz, LoCicero, & others) 1990;50:437-41\*
- Complement activation and lung permeability during cardiopulmonary bypass (Tennenberg, Clardy, & others) 1990;50:597-601\*
- Cor triatriatum: clinical presentation and surgical results in 12 patients (Rodefeld, Brown, & others) 1990;50:562-8\*
- Easy cardioplegia delivery, aortic venting, and reperfusion technique (Kauten) 1990;50:833-5,HW
- Hypoxemia during cardiopulmonary bypass (Belcher & Jones) 1990;50:336,CP
- Liver transplantation with atrioatrial anastomosis for Budd-Chiari syndrome (Carrel, Decurtins, & others) 1990;50:658-60,CR
- Myocardial protection by retrograde cardioplegia in arterial switch operation (Yonenaga, Yasui, & others) 1990;50:238-42\*
- Oxygenator failure (Crowley & Brown) 1990;50:859-60,CP
- Reversal of protamine-induced catastrophic pulmonary vasoconstriction by prostaglandin E<sub>1</sub> (Whitman, Martel, & others) 1990;50:303-5,CR
- Role of perfusion pressure and flow in major organ dysfunction after cardiopulmonary bypass (Slogoff, Reul, & others) 1990;50:911-8\*
- Transatrial approach revisited (Khonsari & Sintek) 1990;50:1002-3,HW
- Ventricular perforation with valvoplasty (Aaron & Alyono) 1990;50:1002,CP; Reply (Robertson) 1990;50:1022-3,CP
- Case reports**
- Acute hypercalcemic crisis after an open heart operation (Sicliari, Herrmann, & Dralle) 1990;50:831-2,CR
- Acute symptoms due to a huge duplication cyst ruptured into the esophagus (Nakahara, Fujii, & others) 1990;50:309-11,CR
- Aortobronchial fistula after an aortic operation (Ishizaki, Tada, & others) 1990;50:975-7,CR
- Bilateral pulmonary nodules caused by *Dirofilaria immitis* (Bradham, Locklair, & Grimball) 1990;50:312-3,CR
- Bronchial anomaly of the right upper lobe (Read, St. Cyr, & others) 1990;50:980-1,CR
- Bronchoesophageal fistula with an esophageal web (Turrentine, Kesler, & Mohamed) 1990;50:473-5,CR
- Catastrophic thrombosis of porcine aortic bioprostheses (Baciewicz, del Rio, & others) 1990;50:817-9,CR
- Circumflex artery ventricular fistula and pseudoaneurysm after mitral reoperation (Sutter, Goldman, & others) 1990;50:826-7,CR
- Coexisting thymic carcinoid tumor and thymoma (Mizuno, Masaoka, & others) 1990;50:650-2,CR
- Combined repair of transposed great arteries and total anomalous pulmonary venous connection (Amodeo, Corno, & others) 1990;50:820-1,CR
- Complete foregut duplication (Dresler, Patterson, & others) 1990;50:306-8,CR
- Congenital tracheoesophageal fistula associated with carcinoma of the lung in an adult (Campbell & Salisbury) 1990;50:978-9,CR
- Coronary revascularization in a child with Kawasaki disease: use of right gastroepiploic artery (Takeuchi, Gomi, & others) 1990;50:294-6,CR
- Cystic medionecrosis of the coronary arteries and fatal coronary vasospasm (Segal, Ratliff, & Cosgrove) 1990;50:653-5,CR
- Disruption of a modified Blalock-Taussig shunt by rapid deceleration injury (Joyce & McGrath) 1990;50:124,CR
- Esophageal perforation in a patient with acquired immunodeficiency syndrome (Adkins, Raccuia, & Acinapura) 1990;50:299-300,CR
- Esophagobronchial fistula and mediastinal tuberculosis (Raghu & Dillard) 1990;50:647-9,CR
- Extended en bloc resection of a primary mediastinal parathyroid carcinoma (Putnam, Schantz, & others) 1990;50:138-40,CR
- Fatal ectopic thymoma (Jansen & Johnson) 1990;50:469-70,CR
- Internal mammary artery bypass after the arterial switch operation (Rheuban, Kron, & Bulatovic) 1990;50:125-6,CR
- Internal mammary artery graft to pulmonary vasculature fistula: a cause of recurrent angina (Johnson, Schmaltz, & others) 1990;50:297-8,CR
- Intramural ventricular fibroma in infancy: survival after partial excision in 2 patients (Ceithaml, Midgley, & others) 1990;50:471-2,CR
- Isolated left carotid artery in CHARGE association: diagnosis and repair (Ghalili, Issenberg, & others) 1990;50:130-2,CR
- Job's syndrome: a rare cause of recurrent lung abscess in childhood (Lui & Inculet) 1990;50:992-4,CR
- Left recurrent laryngeal nerve paralysis: an unusual presentation of histoplasmosis (Gilbert, Murray, & others) 1990;50:987-8,CR
- Left superior vena cava: a pitfall in computed tomographic diagnosis with surgical implications (Wong & Goldstraw) 1990;50:656-7,CR
- Liver transplantation with atrioatrial anastomosis for Budd-Chiari syndrome (Carrel, Decurtins, & others) 1990;50:658-61,CR
- Malignant fibrous histiocytoma of the trachea (Randleman, Unger, & Mansour) 1990;50:458-9,CR
- Malignant thymoma presenting as intracardiac tumor and superior vena caval obstruction (Airan, Sharma, & others) 1990;50:989-91,CR
- Management of aortobronchial fistula with graft replacement and omentopexy (Paull & Keagy) 1990;50:972-4,CR
- Management of mycotic rupture of the ascending aorta after heart-lung transplantation (Albes, Haverich, & others) 1990;50:982-3,CR
- Mediastinal hibernoma, a rare tumor (Ahn & Harvey) 1990;50:828-30,CR
- Norwood operation for univentricular heart with subaortic stenosis in the neonate (Tchervenkova, Béland, & others) 1990;50:822-5,CR
- Polytetrafluoroethylene graft for spontaneous coronary dissection: 7-year follow-up (McCullough, Abel, & Rubenstein) 1990;50:663-4,CR
- Presumed Kawasaki disease resulting in multiple coronary artery aneurysms in an adult (Brevard & Smith) 1990;50:291-3,CR
- Primary mediastinal leiomyoma (Shaffer, Pugatch, & Sugarbaker) 1990;50:301-2,CR
- Resection of the superior vena cava for primary lung cancer: 5 years' survival (Inoue, Shohtsu, & others) 1990;50:661-2,CR
- Retrotracheal goiter: a diagnostic and therapeutic problem (Waldron, Coffey, & others) 1990;50:33-5,CR
- Reversal of protamine-induced catastrophic pulmonary vasoconstriction by prostaglandin E<sub>1</sub> (Whitman, Martel, & others) 1990;50:303-5,CR
- Right atrial perforation by a temporary epicardial pacing wire (Smith & Tatoulis) 1990;50:141-2,CR



**Case reports (cont'd)**

- Right pneumonectomy syndrome in infancy treated with an expandable prosthesis (Rasch, Grover, & others) 1990;50:127-9,CR
- Scimitar syndrome: cine magnetic resonance imaging demonstration of anomalous pulmonary venous drainage (Baxter, McFadden, & others) 1990;50:121-3,CR
- Severe hemolysis after incomplete mitral valve repair (Wilson, Rath, & others) 1990;50:136-7,CR
- Silastic prosthesis plombage for right postpneumonectomy syndrome (Riveron, Adams, & others) 1990;50:465-6,CR
- Squamous carcinoma metastatic to the sternum (D'Orazio, Naunheim, & others) 1990;50:984-6,CR
- Steal phenomenon caused by a parallel branch of the internal mammary artery (Schmid, Heublein, & others) 1990;50:463-4,CR
- Successful Fontan-type operation for a nonresectable right ventricular tumor (Dietl) 1990;50:814-6,CR
- Successful surgical treatment of incessant automatic atrial tachycardia with atrial aneurysm (Miyamura, Nakagomi, & others) 1990;50:476-8,CR
- Swan-Ganz catheter-induced massive hemoptysis and pulmonary artery false aneurysm (Feng, Singh, & others) 1990;50:644-6,CR
- Systemic venous aneurysms (Yokomise, Nakayama, & others) 1990;50:460-2,CR
- Tension pneumopericardium as a complication of single-lung transplantation (Cochrane, Mitchell, & others) 1990;50:808-10,CR
- Tubular supraaortic stenosis: replacement of ascending aorta in a young patient (Gargiulo, Zannini, & others) 1990;50:467-8,CR
- Vagal schwannoma (Heitmiller, Labs, & Lipsett) 1990;50:811-3,CR

**Catheterization**

- Infant ECMO cannulation technique allowing preservation of carotid and jugular vessels (Karl, Iyer, & others) 1990;50:488-9,HW
- Rapid placement of the Hemopump and hemofiltration cannula (Duncan, Burnett, & others) 1990;50:667-9,HW
- Swan-Ganz catheter-induced massive hemoptysis and pulmonary artery false aneurysm (Feng, Singh, & others) 1990;50:644-6,CR

**Cellulose**

- Paraplegia associated with the use of oxidized cellulose in posterolateral thoracotomy incisions (Short) 1990;50:288-90\*

**Child**

- Coronary revascularization in a child with Kawasaki disease: use of right gastroepiploic artery (Takeuchi, Gomi, & others) 1990;50:294-6,CR
- Critical aortic stenosis in the first month of life: surgical results in 26 infants (Karl, Sano, & others) 1990;50:105-9\*
- Disruption of a modified Blalock-Taussig shunt by rapid deceleration injury (Joyce & McGrath) 1990;50:124,CR
- Feasibility of reversible pulmonary artery banding: early results and intermediate-term follow-up (Epstein, Duncan, & others) 1990;50:94-7\*
- Job's syndrome: a rare cause of recurrent lung abscess in childhood (Lui & Inculet) 1990;50:992-4,CR
- Late results of aortic valvotomy for congenital valvar aortic stenosis (DeBoer, Robbins, & others) 1990;50:69-73\*
- Long-term results of total repair of tetralogy of Fallot in childhood (Horneffer, Zahka, & others) 1990;50:179-85\*

- Pediatric heart transplantation (Smyth, Scott, & others) 1990;50:333,CP; Reply (Trento) 1990;50:333,CP
- Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Delius, Zwischenberger, & others) 1990;50:791-5\*
- Relief of tracheal compression by aortopexy (Clevenger, Otherson, & Smith) 1990;50:524-9\*
- Repair of complete atrioventricular septal defect with tetralogy of Fallot (Ilbawi, Cua, & others) 1990;50:407-12\*
- Successful surgical treatment of incessant automatic atrial tachycardia with atrial aneurysm (Miyamura, Nakagomi, & others) 1990;50:476-8,CR
- Tubular supraaortic stenosis: replacement of ascending aorta in a young patient (Gargiulo, Zannini, & others) 1990;50:467-8,CR
- Value of transesophageal echocardiography during repair of congenital heart defects (Dan, Bonato, & others) 1990;50:637-43\*

**Chordae tendineae**

- Repair of flail anterior leaflets of tricuspid and mitral valves by cusp remodeling (Sutlic, Schmid, & Borst) 1990;50:927-30\*

**Choreoathetosis**

- Choreoathetosis after deep hypothermia without circulatory arrest (DeLeon, Ilbawi, & others) 1990;50:714-9\*

**Circulation**

- New technique for the arterial switch operation in difficult situations (Takeuchi & Katogi) 1990;50:1000-1,HW
- Role of perfusion pressure and flow in major organ dysfunction after cardiopulmonary bypass (Slogoff, Reul, & others) 1990;50:911-8\*

**Classics in thoracic surgery**

- Collis gastropasty: origin and evolution (Adler) 1990;50:839-42,CL
- Development of an artificial heart valve (Björk) 1990;50:151-4,CL
- Origins of intraaortic balloon pumping (Kantrowitz) 1990;50:672-4,CL
- Postinfarction ventricular septal defect repair: retrospective thoughts and historical perspectives (Daggett) 1990;50:1006-9,CL
- Use of the allograft aortic valved conduit (Campbell & Clarke) 1990;50:320-2,CL

**Codes**

- Using ICD-9-CM and CPT in the Nineties (Levitsky) 1990;50:519-20,ED

**Cold**

- Improved myocardial preservation during cold storage using substrate enhancement (Haan, Lazar, & others) 1990;50:80-5\*

**Collective reviews**

- Intrathoracic tumors of the vagus nerve (Dabir, Piccione, & Kittle) 1990;50:494-7,CT
- Mid-descending aortic traumatic aneurysms (Rabinsky, Sidhu, & Wagner) 1990;50:155-60,CT

**Complement**

- Complement activation with bubble and membrane oxygenators in aortocoronary bypass grafting (Videm, Fosse, & others) 1990;50:387-91\*
- Complement activation and lung permeability during cardiopulmonary bypass (Tennenberg, Clardy, & others) 1990;50:597-601\*

**Computed tomography.** See Tomography, computed.

**Congenital defects.** See Abnormalities

**Contamination**

- Air contamination in open heart surgery with disposable coveralls, gowns, and drapes (Verkkala, Mäkelä, & others) 1990;50:757-61\*

**Contractility**

- Timing of operation for aortic regurgitation: relation to postoperative contractile state (Taniguchi, Nakano, & others) 1990;50:779-85\*

**Cor triatriatum**

- Cor triatriatum: clinical presentation and surgical results in 12 patients (Rodefeld, Brown, & others) 1990;50:562-8\*

**Coronary**

- Facile retrograde cardioplegia: transatrial cannulation of the coronary sinus (Gundry, Sequiera, & others) 1990;50:882-7\*
- Unusual opening of coronary sinus in atrioventricular septal defects (Wilcox, Anderson, & others) 1990;50:767-70\*

**Coronary artery bypass**

- Arteriosclerosis of the gastroepiploic and internal thoracic arteries (Suma & Takanashi) 1990;50:413-6\*
- Combined internal mammary artery graft for coronary artery revascularization (Bakay, Akçevin, & others) 1990;50:553-6\*
- Complement activation with bubble and membrane oxygenators in aortocoronary bypass grafting (Videm, Fosse, & others) 1990;50:387-91\*
- Coronary artery bypass grafting without splenectomy (Bowman) 1990;50:330-1,CP; Reply (Koike) 1990;50:331,CP
- Determinants of pulmonary function in patients undergoing coronary bypass operations (Shapira, Zabatino, & others) 1990;50:268-73\*
- Five-year results of coronary bypass grafting for patients older than 70 years: role of internal mammary artery (Azariades, Fessler, & others) 1990;50:940-5\*
- Free gastroepiploic artery graft (Mills & Everson) 1990;50:858,CP
- Guidelines for transfusion support in patients undergoing coronary artery bypass grafting (Goodnough, Johnston, & others) 1990;50:675-83,CV
- Pleuropulmonary morbidity: internal thoracic artery versus saphenous vein graft (Hurlbut, Myers, & others) 1990;50:959-64\*
- Right atrial perforation by a temporary epicardial pacing wire (Smith & Tatoulis) 1990;50:141-2,CR
- Risks of blood exposure to the cardiac surgical team (Pate) 1990;50:248-50\*
- Spasm of arterial conduits in aorta-coronary bypass grafting (van Son & Vincent) 1990;50:1019,CP; Reply (Suma) 1990;50:1019-20,CP
- Squamous carcinoma metastatic to the sternum (D'Orazio, Naunheim, & others) 1990;50:984-6,CR
- Surgical standby for percutaneous transluminal coronary angioplasty: a survey of patterns of practice (Cameron, Stinson, & others) 1990;50:35-9\*

**Coronary disease**

- Cardiac transplantation (Griffith) 1990;50:161-2,KR
- Cystic medionecrosis of the coronary arteries and fatal coronary vasospasm (Segal, Ratliff, & Cosgrove) 1990;50:653-5,CR
- Intraoperative ultrasonic imaging of the ascending aorta in ischemic heart disease (Ohtaki, Itoh, & others) 1990;50:539-42\*

**Correspondence**

- Anomalous left coronary artery surgery (Alexi-Meskishvili) 1990;50:511,CP; Reply (Clarke) 1990;50:512,CP

- Beware centrifugal pumps: not a one-way street, but a potentially dangerous "siphon" (Kolff, McClurken, & Alpern) 1990;50:512,CP

- Cardiopulmonary cystosarcoma (Shuman) 1990;50:510,CP; Reply (Tyers) 1990;50:510-11,CP

- Certification of perfusionists (Fosburg, Anderson, & others) 1990;50:508,CP

- Chest wall recurrence of lung cancer after transthoracic fine needle aspiration biopsy (Hix) 1990;50:1020-1,CP

- Choice of surgical clips for mammary artery take-down (Hovaguimian & Floten) 1990;50:856,CP; Reply (Gold) 1990;50:856-7,CP

- Closed chest cardiac massage (Zuhdi) 1990;50:331-2,CP; (Robicsek) 1990;50:332-3,CP

- Computed tomography in selecting patients for mediastinoscopy (Van Schil) 1990;50:163,CP; Reply (Thermann) 1990;50:163,CP

- Coronary artery bypass grafting without splenectomy (Bowman) 1990;50:330-1,CP; Reply (Koike) 1990;50:331,CP

- Descending necrotizing mediastinitis (Horowitz, Sosa, & Lickstein) 1990;50:859-60,CP

- Diaphragmatic plication (Ribet) 1990;50:855-6,CP

- Double-barrel suction device (Robicsek) 1990;50:509,CP

- Efficacy and benefit of mediastinal computed tomography (Gaer & Goldstraw) 1990;50:508,CP

- Efficacy of pulmonary artery versus left ventricular venting (Garibaldi) 1990;50:685,CP; Reply (Mitchell) 1990;50:686,CP

- Elevated hemidiaphragm after cardiac operations (Esposito) 1990;50:166-7,CP; Reply (Curtis) 1990;50:167,CP

- Endoscopic relief of airway obstruction (Cavaliere & Ardigo) 1990;50:163,CP; Reply (Mathisen & Grillo) 1990;50:164,CP

- Esophagectomy for Barrett's esophagus (Weil) 1990;50:858-9,CP; Reply (Altorki) 1990;50:859,CP

- Free gastroepiploic artery graft (Mills & Everson) 1990;50:858,CP

- How should the risk of bank blood transfusion in open heart operations be minimized? (Santoli, Scrofani, & Santoli) 1990;50:1021-2,CP

- Hypoxemia during cardiopulmonary bypass (Belcher & Jones) 1990;50:336,CP

- Inadequate flow of the internal mammary artery: another complication of sternal overretraction (Jebara, Acker, & others) 1990;50:336-7,CP

- Individual ligation technique (Meyer) 1990;50:1023,CP

- Infection and Cell-Saver use (Nessly) 1990;50:509-10,CP

- Internal mammary artery marker (Kyger) 1990;50:333-4,CP

- Internal mammary artery-to-pulmonary artery shunt in infants (Sakakibara, Hori & others) 1990;50:857-8,CP

- Intraoperative photodynamic therapy for malignant mesothelioma (Pass, Tochner, & others) 1990;50:687-8,CP

- Intraoperative transesophageal echocardiography for hypertrophic cardiomyopathy (Eng, Nair, & others) 1990;50:513-4,CP

- Is systemic cooling essential for open heart surgery? (Victor & Kabeer) 1990;50:334-5,CP

- Left ventricular outflow tract obstruction with aortic arch anomalies and ventricular septal defect (Sell) 1990;50:854-5,CP; Reply (Iwahara, Ino, Yabuta) 1990;50:855,CP

- Malignant fibrous histiocytoma (Laas & Schmid) 1990;50:164,CP; Reply (Lazar) 1990;50:165,CP; (Craddock) 1990;50:165,CP

- Management of Jehovah's Witness patients (Kyger & Blakes-tad) 1990;50:167,CP



**Correspondence (cont'd)**

- Membranotomy for Budd-Chiari syndrome (Victor, Jayanthi, & Madanagopalan) 1990;50:512-3,CP
- Organ procurement for pulmonary transplantation (Ribet & Pruvot) 1990;50:335,CP; Reply (Griffith) 1990;50:335-6,CP
- Oxygenator failure (Crowley & Brown) 1990;50:859-60,CP
- Pediatric heart transplantation (Smyth, Scott, & others) 1990;50:333,CP; Reply (Trento) 1990;50:333,CP
- Plastic struts for delayed sternal closure (Majid) 1990;50:1021,CP
- Polytetrafluoroethylene posterior annuloplasty for mitral regurgitation (Fundarò, Salati, & others) 1990;50:165-6,CP; Reply (Cosgrove) 1990;50:166,CP
- Postirradiation pericardiectomy (Eckstein) 1990;50:685,CP
- Postoperative drainage and pericardial effusion (Bryan & Angelini) 1990;50:330,CP; Reply (Smulders, Moulijn, & Koolen) 1990;50:330,CP
- Repair of thoracic dissections (Hammond) 1990;50:330,CP
- Respiratory function after thoracic operations (Hallfeldt, Knoefel, & others) 1990;50:688,CP
- Retrotracheal mediastinal goiter with contralateral extension (Ribet) 1990;50:684,CP; Reply (Van Schil) 1990;50:684,CP
- Spasm of arterial conduits in aorta-coronary bypass grafting (van Son & Vincent) 1990;50:1019,CP; Reply (Suma) 1990;50:1019-21,CP
- Sternotomy infections in infants (Stahl & Kopf) 1990;50:337,CP; Reply (Terranova & Crawford) 1990;50:337,CP
- Thymectomy for myasthenia gravis (Jaretski) 1990;50:686,CP; Reply (Mulder) 1990;50:687,CP
- Valve insufficiency after atrioventricular septal defect repair: differences between patients with and without Down's syndrome? (Marino) 1990;50:854,CP; Reply (Abbruzzese, Napoleone, & others) 1990;50:854,CP
- Vein graft permeability (Kennedy, Tedgui, & Piwnica) 1990;50:334,CP; Reply (Finck, Mashburn, & others) 1990;50:334,CP
- Ventricular perforation with valvoplasty (Aaron & Alyono) 1990;50:1022,CP; Reply (Robertson) 1990;50:1022-3,CP

**Creatine kinase**

- Selective monitoring of patients with suspected blunt cardiac injury (Reif, Justice, & others) 1990;50:530-3\*

**Current reviews**

- Blood conservation in cardiac surgery (Scott, Kessler, & Wernly) 1990;50:843-51,CV
- Guidelines for transfusion support in patients undergoing coronary artery bypass grafting (Goodnough, Johnston, & others) 1990;50:675-83,CV
- Intraoperative echocardiography (Lazar & Plehn) 1990;50:1010-8,CV
- Paradoxical hypertension after repair of coarctation of the aorta: a review of its causes (Sealy) 1990;50:323-9,CV

**Cyst**

- Acute symptoms due to a huge duplication cyst ruptured into the esophagus (Nakahara, Fujii, & others) 1990;50:309-11,CR
- Intraoperative bronchial aspiration of ruptured pulmonary hydatid cysts (Saidi & Rezvan-Nobahar) 1990;50:631-6\*

**Debridement**

- Ultrasonic debridement during mitral valve reconstruction for calcified mitral stenosis (Nakano, Mitsuno, & others) 1990;50:923-6\*

**Decalcification**

- Aortic valve repair for aortic stenosis in adults (Shapira, Lemole, & others) 1990;50:110-20\*

**Dialysis**

- Internal mammary artery revascularization in the patient on long-term renal dialysis (Blakeman, Sullivan, & others) 1990;50:776-8\*

**Diaphragm**

- Diaphragmatic plication (Ribet) 1990;50:855-6,CP
- Elevated hemidiaphragm after cardiac operations (Esposito) 1990;50:166-7,CP; Reply (Curtis) 1990;50:167,CP

**Digoxin**

- Prophylactic digitalization for thoracotomy: a reassessment (Ritchie, Bowe, & Gibbons) 1990;50:86-8\*

**Disposable equipment**

- Air contamination in open heart surgery with disposable coveralls, gowns, and drapes (Verkkala, Mäkelä, & others) 1990;50:757-61\*

**Dissection**

- Aortic dissection with the entrance tear in transverse aorta: analysis of 12 autopsy patients (Roberts & Roberts) 1990;50:762-6\*
- Easy dissection of hard and thickened pericardium on constrictive pericarditis (Oku, Sawada, & others) 1990;50:998-9,HW
- Surgical epicardial ablation of left ventricular pathway using sling exposure (Guiraudon, Klein, & others) 1990;50:968-71\*

**Diuresis**

- Diuresis in hemodynamically compromised patients: continuous furosemide infusion (Magovern & Magovern) 1990;50:482-4,HW

**Dog**

- Artificial mitral valve chordae: experimental and clinical experience (Zussa, Frater, & others) 1990;50:367-73\*
- Cardioplegia for transplantation: failure of extracellular solution compared with Stanford or UW solution (Gott, Pan-Chih, & others) 1990;50:348-54\*
- Feasibility of reversible pulmonary artery banding: early results and intermediate-term follow-up (Epstein, Duncan, & others) 1990;50:94-7\*
- Leukocyte depletion results in excellent heart-lung function after 12 hours of storage (Pillai, Bando, & others) 1990;50:211-4\*
- Modification of supraventricular tachyarrhythmias by stimulating atrial neurons (Ali, Butler, & others) 1990;50:251-6\*
- Oxygen free radical scavengers decrease reperfusion injury in lung transplantation (Detterbeck, Keagy, & others) 1990;50:204-10\*
- Tracheal reconstruction with polytetrafluoroethylene graft in dogs (Cull, Lally, & others) 1990;50:899-901\*

**Drainage**

- Descending necrotizing mediastinitis (Horowitz, Sosa, & Lickstein) 1990;50:859-60,CP

**Echinococcosis**

- Intraoperative bronchial aspiration of ruptured pulmonary hydatid cysts (Saidi & Rezvan-Nobahar) 1990;50:631-6\*

**Echocardiography**

- Intraoperative echocardiography (Lazar & Plehn) 1990;50:1010-8,CV
- Intraoperative transesophageal echocardiography for hypertrophic cardiomyopathy (Eng, Nair, & others) 1990;50:513-4,CP
- Pericardial window: mechanisms of efficacy (Sugimoto, Little, & others) 1990;50:442-5\*
- Selective monitoring of patients with suspected blunt cardiac injury (Reif, Justice, & others) 1990;50:530-3\*

- Subaortic obstruction: intraoperative echocardiography as an adjunct to operation (Sreeram, Sutherland, & others) 1990;50:579-85\*
- Surgical treatment of cardiac myxomas: long-term results (Sellke, Lemmer, & others) 1990;50:557-61\*
- Value of transesophageal echocardiography during repair of congenital heart defects (Dan, Bonato, & others) 1990;50:637-43\*
- Economics**
- Extension of donor criteria in cardiac transplantation: surgical risk versus supply-side economics (Sweeney, Lammermeier, & others) 1990;50:7-11\*
- Editorials**
- Aspirin, blood loss, and transfusion (Gay) 1990;50:345,ED
- Assessing the prognosis of thymomas (Wick) 1990;50:521-2,ED
- Behavior of small bronchial carcinomas (Shields) 1990;50:691-2,ED
- Bronchial and thymic carcinoids and the ectopic ACTH syndrome (Odell) 1990;50:5-6,ED
- Cardiac transplantation for neonates with hypoplastic left heart syndrome (Mayer) 1990;50:864-5,ED
- Choreoathetosis as a complication of cardiopulmonary bypass (Barratt-Boyes) 1990;50:693-4,ED
- Defining the limits of suitability of cardiac allografts (Guerraty & Wechsler) 1990;50:1-2,ED
- Empyema thoracis (Miller) 1990;50:343-4,ED
- Epidural analgesia: different strokes for different folks (Faber) 1990;50:862-3\*
- The Medtronic-Hall valve: frequently used, seldom reported (Starek) 1990;50:346-7,ED
- Oxygenated cardioplegia: blood is a many splendored thing (Buckberg) 1990;50:175-7,ED
- Paraplegia associated with thoracotomy (Walker) 1990;50:178,ED
- Surgical management of chronic empyema: the role of thoracoplasty (Pairolero & Trastek) 1990;50:689-90,ED
- Surgical standby for coronary angioplasty (Ulliyot) 1990;50:3-4,ED
- Surgical treatment of Wolff-Parkinson-White syndrome (Ferguson) 1990;50:866-7,ED
- Traumatic bronchial rupture and other major thoracic injuries (Benfield) 1990;50:523,ED
- Uncomfortable issues (Edmunds) 1990;50:173-4,ED
- Using ICD-9-CM and CPT in the Nineties (Levitsky) 1990;50:510-20,ED
- Effusion**
- Postoperative drainage and pericardial effusion (Bryan & Angelini) 1990;50:330,CP; Reply (Smulders, Moulijn, & Koolen) 1990;50:330,CP
- Thoracoscopy and talc poudrage for pneumothoraces and effusions (Daniel, Tribble, & Rodgers) 1990;50:186-9\*
- Electrocardiography**
- Surgical treatment of cardiac myxomas: long-term results (Sellke, Lemmer, & others) 1990;50:557-61\*
- Embolism**
- Systemic arterial air embolism in penetrating lung injury (Estreza, Pass, & Platt) 1990;50:257-61\*
- Empyema**
- Empyema thoracis (Miller) 1990;50:343-4,ED
- Management of empyema thoracis (Ali & Unruh) 1990;50:355-9\*
- Surgical management of chronic empyema: the role of thoracoplasty (Pairolero & Trastek) 1990;50:689-90,ED
- Thoracoplasty: current application to the infected pleural space (Horriggan & Snow) 1990;50:695-9\*
- Use of pedicled omental flap in treatment of empyema (Shira-kusa, Ueda, & others) 1990;50:420-4\*
- Endocarditis**
- Clinical experience with the Medtronic-Hall valve prosthesis (Keenan, Armitage, & others) 1990;50:748-53\*
- Endoscopy**
- Endoscopic relief of airway obstruction (Cavaliere & Ardigo) 1990;50:163,CP; Reply (Mathisen & Grillo) 1990;50:164,CP
- Traumatic bronchial rupture and other major thoracic injuries (Benfield) 1990;50:523,ED
- Endothelium**
- Endothelial cell toxicity of solid-organ preservation solutions (von Oppell, Pfeiffer, & others) 1990;50:902-10\*
- Epicardium**
- Surgical epicardial ablation of left ventricular pathway using sling exposure (Guiraudon, Klein, & others) 1990;50:968-71\*
- Epidemiology**
- Coarctation of the aorta (van Son) 1990;50:852-3,KR
- Tuberculosis (Pomerantz) 1990;50:498-9,KR
- Esophagus**
- Acquired benign esophagorespiratory fistula: report of 16 consecutive cases (Gerzić, Rakić, & Randjelović) 1990;50:724-7\*
- Acute symptoms due to a huge duplication cyst ruptured into the esophagus (Nakahara, Fujii, & others) 1990;50:309-11,CR
- Bronchoesophageal fistula with an esophageal web (Turrentine, Kesler, & Mohamed) 1990;50:473-5,CR
- Congenital tracheoesophageal fistula associated with carcinoma of the lung in an adult (Campbell & Salisbury) 1990;50:978-9,CR
- Esophageal perforation in a patient with acquired immunodeficiency syndrome (Adkins, Raccuia, & Acinapura) 1990;50:299-300,CR
- Esophageal perforation: a therapeutic challenge (Attar, Hankins, & others) 1990;50:45-51\*
- Esophagectomy for Barrett's esophagus (Weil) 1990;50:858-9,CP; Reply (Altorki) 1990;50:859,CP
- Esophagobronchial fistula and mediastinal tuberculosis (Raghu & Dillard) 1990;50:647-9,CR
- Iatrogenic paraesophageal hiatus hernia (Streitz & Ellis) 1990;50:446-9\*
- Intraoperative transesophageal echocardiography for hypertrophic cardiomyopathy (Eng, Nair, & others) 1990;50:513-4,CP
- Pharyngoesophageal perforation after blunt neck trauma (Niezgoda, McMenamin, & Graeber) 1990;50:615-7\*
- Platysma musculocutaneous flap for reconstruction of trachea in esophageal cancer (Sodeyama, Matsuo, & others) 1990;50:485-7,HW
- Extracellular space**
- Cardioplegia for transplantation: failure of extracellular solution compared with Stanford or UW solution (Gott, Pan-Chih, & others) 1990;50:348-54\*
- Extracorporeal**
- Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Delius, Zwischenberger, & others) 1990;50:791-5\*
- Extracorporeal membrane oxygenation**
- Infant ECMO cannulation technique allowing preservation of carotid and jugular vessels (Karl, Iyer, & others) 1990;50:488-9,HW



**Extracorporeal membrane oxygenation (cont'd)**

Prognostic determinants in extracorporeal membrane oxygenation for respiratory failure in newborns (Weber, Connors, & others) 1990;50:720-3\*

**Fiber optics**

A fiber-optic retractor for harvesting the internal mammary artery (Angelini & Azzu) 1990;50:314-5,HW

**Fibrin glue**

Four years' experience with fibrin sealant in thoracic and cardiovascular surgery (Matthew, Spotnitz, & others) 1990;50:40-4\*

**Fibrous skeleton**

Variations within the fibrous skeleton and ventricular outflow tracts in tetralogy of Fallot (Howell, Ho, & others) 1990;50:450-7\*

**Fistula**

Acquired benign esophagorespiratory fistula: report of 16 consecutive cases (Gerzić, Rakić, & Randjelović) 1990;50:724-7\*

Aortobronchial fistula after an aortic operation (Ishizaki, Tada, & others) 1990;50:975-7,CR

Bronchoesophageal fistula with an esophageal web (Turrentine, Kesler, & Mohamed) 1990;50:473-5,CR

Circumflex artery ventricular fistula and pseudoaneurysm after mitral reoperation (Sutter, Goldman, & others) 1990;50:826-7,CR

Congenital tracheoesophageal fistula associated with carcinoma of the lung in an adult (Campbell & Salisbury) 1990;50:978-9,CR

Esophagobronchial fistula and mediastinal tuberculosis (Raghu & Dillard) 1990;50:647-9,CR

Internal mammary artery graft to pulmonary vasculature fistula: a cause of recurrent angina (Johnson, Schmaltz, & others) 1990;50:297-8,CR

Management of aortobronchial fistula with graft replacement and omentopexy (Paull & Keagy) 1990;50:972-4,CR

**Foreign body**

Giant chest wall tumor resulting from tissue reaction to foreign bodies (Fukai, Sano, & others) 1990;50:754-6\*

**Fractures**

Thoracic spinal fractures and aortic rupture: a significant and fatal association (Sturm, Hines, & Perry) 1990;50:931-3\*

**Furosemide**

Diuresis in hemodynamically compromised patients: continuous furosemide infusion (Magovern & Magovern) 1990;50:482-4,HW

**Gastrointestinal tract**

Complete foregut duplication (Dresler, Patterson, & others) 1990;50:306-8,CR

**Gastroplasty**

Collis gastroplasty: origin and evolution (Adler) 1990;50:839-42,CL

**Gloves, surgical**

Risks of blood exposure to the cardiac surgical team (Pate) 1990;50:248-50\*

**Glue**

Use of glue without graft replacement for type A dissections: a new surgical technique (Fabiani, Jebara, & others) 1990;50:143-5,HW

**Goiter**

Retrotracheal goiter: a diagnostic and therapeutic problem (Waldron, Coffey, & others) 1990;50:133-5,CR

Retrotracheal mediastinal goiter with contralateral extension (Ribet) 1990;50:684,CP; Reply (Van Schil) 1990;50:684,CP

**Graft**

Combined internal mammary artery graft for coronary artery revascularization (Bakay, Akçevin, & others) 1990;50:553-6\*

Coronary artery bypass grafting without splenectomy (Bowman) 1990;50:330-1,CP; Reply (Koike) 1990;50:331,CP

Free gastroepiploic artery graft (Mills & Everson) 1990;50:858,CP

Internal mammary artery graft to pulmonary vasculature fistula: a cause of recurrent angina (Johnson, Schmaltz, & others) 1990;50:297-8,CR

Management of aortobronchial fistula with graft replacement and omentopexy (Paull & Keagy) 1990;50:972-4,CR

Pleuropulmonary morbidity: internal thoracic artery versus saphenous vein graft (Hurlbut, Myers, & others) 1990;50:959-64\*

Polytetrafluoroethylene graft for spontaneous coronary dissection: 7-year follow-up (McCullough, Abel, & Rubenstein) 1990;50:663-4,CR

Selective and adjustable pericardial flap to protect internal mammary artery grafts (González-Santos, Bastida, & others) 1990;50:995-7,HW

Spasm of arterial conduits in aorta-coronary bypass grafting (van Son & Vincent) 1990;50:1019,CP; Reply (Suma) 1990;50:1019-20,CP

Sutureless ring graft replacement of ascending aorta and aortic arch (Oz, Ashton, & others) 1990;50:74-9\*

Tracheal reconstruction with polytetrafluoroethylene graft in dogs (Cull, Lally, & others) 1990;50:899-901\*

Use of glue without graft replacement for type A dissections: a new surgical technique (Fabiani, Jebara, & others) 1990;50:143-5,HW

Use of the variable-length intraluminal sutureless graft (Graver & Tyras) 1990;50:624-30\*

Vein graft permeability (Kennedy, Tedgui, & Piwnica) 1990;50:334,CP; Reply (Finck, Mashburn, & others) 1990;50:334,CP

**Guidelines**

Guidelines for transfusion support in patients undergoing coronary artery bypass grafting (Goodnough, Johnston, & others) 1990;50:675-83,CV

**Heart**

Aortic dissection with the entrance tear in transverse aorta: analysis of 12 autopsy patients (Roberts & Roberts) 1990;50:762-6\*

Intraoperative transesophageal echocardiography for hypertrophic cardiomyopathy (Eng, Nair, & others) 1990;50:513-4,CP

Long-term amiodarone administration protects against global myocardial ischemia (Karlson, Hopkins, & others) 1990;50:575-8\*

Modified pericardial closure to protect cardiovascular structures during sternal reentry (Zapolanski, Fishman, & others) 1990;50:665-6,HW

Myocardial preservation using lidocaine blood cardioplegia (Fiore, Naunheim, & others) 1990;50:771-5\*

Polytetrafluoroethylene graft for spontaneous coronary dissection: 7-year follow-up (McCullough, Abel, & Rubenstein) 1990;50:663-4,CR

Preservation of myocardial function and biochemistry after blood and oxygenated crystalloid cardioplegia during cardiac arrest (Coetzee, Roussouw, & others) 1990;50:230-7\*

- Surgical treatment of cardiac myxomas: long-term results (Sellke, Lemmer, & others) 1990;50:557-61\*
- Heart arrest**  
Clinical experience with portable cardiopulmonary bypass in cardiac arrest patients (Hartz, LoCicero, & others) 1990;50:437-41\*
- Heart, artificial**  
Development of an artificial heart valve (Björk) 1990;50:151-4,CL
- Heart atrium**  
Biatial transseptal approach in case of difficult exposure to the mitral valve (Deloche, Acar, & others) 1990;50:318-9,HW  
Facile retrograde cardioplegia: transatrial cannulation of the coronary sinus (Gundry, Sequiera, & others) 1990;50:882-7\*  
Mitral prosthetic replacement in small left atria (Campanella, Cameron, & Feilberg) 1990;50:836-7,HW  
Modification of supraventricular tachyarrhythmias by stimulating atrial neurons (Ali, Butler, & others) 1990;50:251-6\*  
Operative insertion of a transvenous left atrial pressure monitoring line (Satur, Stubington, & others) 1990;50:1004-5,HW  
Right atrial perforation by a temporary epicardial pacing wire (Smith & Tatoulis) 1990;50:141-2,CR  
Successful surgical treatment of incessant automatic atrial tachycardia with atrial aneurysm (Miyamura, Nakagomi, & others) 1990;50:476-8,CR  
Transatrial approach revisited (Khonsari & Sintek) 1990;50:1002-3,HW  
Unusual opening of coronary sinus in atrioventricular septal defects (Wilcox, Anderson, & others) 1990;50:767-70\*
- Heart conduction system**  
Repair of complete atrioventricular septal defect with tetralogy of Fallot (Ilbawi, Cua, & others) 1990;50:407-12\*
- Heart defects, congenital.** See Abnormalities.
- Heart injuries**  
Selective monitoring of patients with suspected blunt cardiac injury (Reif, Justice, & others) 1990;50:530-3\*
- Heart-lung transplantation**  
Leukocyte depletion results in excellent heart-lung function after 12 hours of storage (Pillai, Bando, & others) 1990;50:211-4\*  
Management of mycotic rupture of the ascending aorta after heart-lung transplantation (Albes, Haverich, & others) 1990;50:982-3,CR
- Heart massage**  
Closed chest cardiac massage (Zuhdi) 1990;50:331-2,CP; (Robicsek) 1990;50:332-3,CP
- Heart surgery**  
Acute hypercalcemic crisis after an open heart operation (Siclari, Herrmann, & Dralle) 1990;50:831-2,CR  
Air contamination in open heart surgery with disposable coveralls, gowns, and drapes (Verkkala, Mäkelä, & others) 1990;50:757-61\*  
Anomalous left coronary artery surgery (Alexi-Meskishvili) 1990;50:511,CP; Reply (Clarke) 1990;50:512,CP  
Antimicrobial prophylaxis for open heart operations (Miedzinski, Callaghan, & others) 1990;50:800-7\*  
Aortic valve repair for aortic stenosis in adults (Shapira, Lemole, & others) 1990;50:110-20\*  
Biatial transseptal approach in case of difficult exposure to the mitral valve (Deloche, Acar, & others) 1990;50:318-9,HW  
Blood conservation in cardiac surgery (Scott, Kessler, & Wernly) 1990;50:843-51,CV  
Cardiac transplantation (Griffith) 1990;50:161-2,KR  
Cardiopulmonary cystosarcoma (Shuman) 1990;50:510,CP; Reply (Tyers) 1990;50:510-11,CP  
Circumflex artery ventricular fistula and pseudoaneurysm after mitral reoperation (Sutter, Goldman, & others) 1990;50:826-7,CR  
Coarctation of the aorta (van Son) 1990;50:852-3,KR  
Complications after cardiac operations in patients with severe pulmonary impairment (Bevelacqua, Garritan, & others) 1990;50:602-6\*  
Cor triatriatum: clinical presentation and surgical results in 12 patients (Rodefeld, Brown, & others) 1990;50:562-8\*  
Critical aortic stenosis in the first month of life: surgical results in 26 infants (Karl, Sano, & others) 1990;50:105-9\*  
Defining the limits of suitability of cardiac allografts (Guerraty & Wechsler) 1990;50:1-2,ED  
Determinants of pulmonary function in patients undergoing coronary bypass operations (Shapira, Zabatin, & others) 1990;50:268-73\*  
Efficacy of pulmonary artery versus left ventricular venting (Garibaldi) 1990;50:685,CP; Reply (Mitchell) 1990;50:686,CP  
Eight years' experience with the Medtronic-Hall valve prosthesis (Vallejo, Gonzalez-Santos, & others) 1990;50:429-36\*  
Elevated hemidiaphragm after cardiac operations (Esposito) 1990;50:166-7,CP; Reply (Curtis) 1990;50:167,CP  
Four years' experience with fibrin sealant in thoracic and cardiovascular surgery (Matthew, Spotnitz, & others) 1990;50:40-4\*  
Guidelines for transfusion support in patients undergoing coronary artery bypass grafting (Goodnough, Johnston, & others) 1990;50:675-83,CV  
How should the risk of bank blood transfusion in open heart operations be minimized? (Santoli, Scrofani, & Santoli) 1990;50:1021-2,CP  
Initial report of the Veterans Administration preoperative risk assessment study for cardiac surgery (Grover, Hammermeister, & others) 1990;50:12-28\*  
Internal mammary artery bypass after the arterial switch operation (Rheuban, Kron, & Bulatovic) 1990;50:125-6,CR  
Is systemic cooling essential for open heart surgery? (Victor & Kabeer) 1990;50:334-5,CP  
Late results of aortic valvotomy for congenital valvar aortic stenosis (DeBoer, Robbins, & others) 1990;50:69-73\*  
Left ventricular outflow tract obstruction with aortic arch anomalies and ventricular septal defect (Sell) 1990;50:854-5,CP; Reply (Iwahara, Ino, & Yabuta) 1990;50:855,CP  
Long-term prosthesis-related and sudden cardiac-related complications after valve replacement for aortic stenosis (Lund, Pilegaard, & others) 1990;50:396-406\*  
Management of Jehovah's Witness patients (Kyger & Blakeslad) 1990;50:167,CP  
Myocardial protection by retrograde cardioplegia in arterial switch operation (Yonenaga, Yasui, & others) 1990;50:238-42\*  
Norwood operation for univentricular heart with subaortic stenosis in the neonate (Tchervenkov, Béland, & others) 1990;50:822-5,CR  
Operative insertion of a transvenous left atrial pressure monitoring line (Satur, Stubington, & others) 1990;50:1004-5,HW  
Polytetrafluoroethylene posterior annuloplasty for mitral regurgitation (Fundarò, Salati, & others) 1990;50:165-6,CP; Reply (Cosgrove) 1990;50:166,CP  
Postirradiation pericardectomy (Eckstein) 1990;50:685,CP



**Heart surgery (cont'd)**

- Pulmonary resection combined with cardiac operations (Canver, Bhayana, & others) 1990;50:796-9\*
- Rapid placement of the Hemopump and hemofiltration cannula (Duncan, Burnett, & others) 1990;50:667-9,HW
- Reappraisal of localized resection for subvalvar aortic stenosis (Stewart, Merrill, & others) 1990;50:197-203\*
- Repair of complete atrioventricular septal defect with tetralogy of Fallot (Ilbawi, Cua, & others) 1990;50:407-12\*
- Repair of flail anterior leaflets of tricuspid and mitral valves by cusp remodeling (Sutlic, Schmid, & Borst) 1990;50:927-30\*
- Risks of blood exposure to the cardiac surgical team (Pate) 1990;50:248-50\*
- Role of perfusion pressure and flow in major organ dysfunction after cardiopulmonary bypass (Slogoff, Reul, & others) 1990;50:911-8\*
- Severe aortic stenosis in octogenarians: is operation an acceptable alternative? (Deleuze, Loisanse, & others) 1990;50:226-9\*
- Subaortic obstruction: intraoperative echocardiography as an adjunct to operation (Sreeram, Sutherland, & others) 1990;50:579-85\*
- Successful surgical treatment of incessant automatic atrial tachycardia with atrial aneurysm (Miyamura, Nakagomi, & others) 1990;50:476-8,CR
- Superior vena caval reconstruction using autologous pericardium (Piccione, Faber, & Warren) 1990;50:417-9\*
- Surgical standby for coronary angioplasty (Ullyot) 1990;50:3-4,ED
- Surgical standby for percutaneous transluminal coronary angioplasty: a survey of patterns of practice (Cameron, Stinson, & others) 1990;50:35-9\*
- Sutureless ring graft replacement of ascending aorta and aortic arch (Oz, Ashton, & others) 1990;50:74-9\*
- Uncomfortable issues (Edmunds) 1990;50:173-4,ED
- Use of glue without graft replacement for type A dissections: a new surgical technique (Fabiani, Jebara, & others) 1990;50:143-5,HW
- Use of the variable-length intraluminal sutureless graft (Graver & Tyras) 1990;50:624-30\*
- Value of transesophageal echocardiography during repair of congenital heart defects (Dan, Bonato, & others) 1990;50:637-43\*
- Valve insufficiency after atrioventricular septal defect repair: differences between patients with and without Down's syndrome? (Marino) 1990;50:854,CP; Reply (Abbruzzese, Napoleone, & others) 1990;50:854,CP

**Heart transplantation**

- Cardiac transplantation for hypoplastic left heart syndrome: a modified technique (Backer, Idriss, & others) 1990;50:894-8\*
- Cardiac transplantation for neonates with hypoplastic left heart syndrome (Mayer) 1990;50:864-5,ED
- Pediatric heart transplantation (Smyth, Scott, & others) 1990;50:333,CP; Reply (Trento) 1990;50:333,CP
- Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Delius, Zwischenberger, & others) 1990;50:791-5\*
- Use of potentially infected donor hearts for cardiac transplantation (Lammermeier, Sweeney, & others) 1990;50:222-5\*

See also Transplantation.

**Heart valves**

- Catastrophic thrombosis of porcine aortic bioprostheses (Baciewicz, del Rio, & others) 1990;50:817-9,CR

- Clinical experience with the Medtronic-Hall valve prosthesis (Keenan, Armitage, & others) 1990;50:748-53\*
- Clinical performance of St. Jude and Medtronic-Hall prostheses: a randomized comparative study (Antunes) 1990;50:743-7\*
- Influence of prosthetic design on durability of the Liotta porcine valve in the mitral position (Bortolotti, Milano, & others) 1990;50:734-8\*
- Reoperations on heart valve prostheses: an analysis of operative risks and late results (Pansini, Ottino, & others) 1990;50:590-6\*
- Repair of flail anterior leaflets of tricuspid and mitral valves by cusp remodeling (Sutlic, Schmid, & Borst) 1990;50:927-30\*
- Reversibility of pulmonary artery hypertension in aortic stenosis after aortic valve replacement (Tracy, Proctor, & Hizny) 1990;50:89-93\*
- Severe hemolysis after incomplete mitral valve repair (Wilson, Rath, & others) 1990;50:136-7,CR
- Ultrasonic debridement during mitral valve reconstruction for calcified mitral stenosis (Nakano, Mitsuno, & others) 1990;50:923-6\*
- Valve insufficiency after atrioventricular septal defect repair: differences between patients with and without Down's syndrome? (Marino) 1990;50:854,CP; Reply (Abbruzzese, Napoleone, & others) 1990;50:854,CP
- Ventricular perforation with valvoplasty (Aaron & Alyono) 1990;50:1022,CP; Reply (Robertson) 1990;50:1022-3,CP

**Heart ventricle**

- Efficacy of pulmonary artery versus left ventricular venting (Garibaldi) 1990;50:685,CP; Reply (Mitchell) 1990;50:686,CP
- Effects of left ventricular assist for cardiogenic shock on cardiac function and organ blood flow distribution (Sukehiro & Flameng) 1990;50:374-83\*
- Improved myocardial preservation during cold storage using substrate enhancement (Haan, Lazar, & others) 1990;50:80-5\*
- Intramural ventricular fibroma in infancy: survival after partial excision in 2 patients (Ceithaml, Midgley, & others) 1990;50:471-2,CR
- Left ventricular outflow tract obstruction with aortic arch anomalies and ventricular septal defect (Sell) 1990;50:854-5,CP; Reply (Iwahara, Ino, & Yabuta) 1990;50:855,CP
- Modification of supraventricular tachyarrhythmias by stimulating atrial neurons (Ali, Butler, & others) 1990;50:251-6\*
- Morphology of pulmonary atresia with intact ventricular septum in patients dying after operation (van de Wal, Smith, & others) 1990;50:90-102\*
- Postinfarction ventricular septal defect repair: retrospective thoughts and historical perspectives (Daggett) 1990;50:1006-9,CL
- Successful Fontan-type operation for a nonresectable right ventricular tumor (Dietl) 1990;50:814-6,CR
- Surgical epicardial ablation of left ventricular pathway using sling exposure (Guiraudon, Klein, & others) 1990;50:968-71\*
- Variations within the fibrous skeleton and ventricular outflow tracts in tetralogy of Fallot (Howell, Ho, & others) 1990;50:450-7\*
- Ventricular perforation with valvoplasty (Aaron & Alyono) 1990;50:1022,CP; Reply (Robertson) 1990;50:1022-3,CP

**Hemodynamics**

- Diuresis in hemodynamically compromised patients: continuous furosemide infusion (Magovern & Magovern) 1990;50:482-4,HW

- Internal mammary artery revascularization in the patient on long-term renal dialysis (Blakeman, Sullivan, & others) 1990;50:776-8\*
- Myocardial protection by retrograde cardioplegia in arterial switch operation (Yonenaga, Yasui, & others) 1990;50:238-42\*
- Origins of intraaortic balloon pumping (Kantrowitz) 1990;50:672-4,CL
- Repair of supravalvar aortic stenosis: cardiovascular morphometric and hemodynamic results (Braunstein, Sade, & others) 1990;50:700-7\*
- Hemolysis**
- Severe hemolysis after incomplete mitral valve repair (Wilson, Rath, & others) 1990;50:136-7,CR
- Hemoptysis**
- Swan-Ganz catheter-induced massive hemoptysis and pulmonary artery false aneurysm (Feng, Singh, & others) 1990;50:644-6,CR
- Hemorrhage**
- Eight years' experience with the Medtronic-Hall valve prosthesis (Vallejo, Gonzalez-Santos, & others) 1990;50:429-36\*
- Hemostatic technique for internal mammary artery anastomotic bleeding (Bhattacharyya, Trivedi, & others) 1990;50:316-7,HW
- Hemostasis, surgical**
- Hemostatic technique for internal mammary artery anastomotic bleeding (Bhattacharyya, Trivedi, & others) 1990;50:316-7,HW
- Hernia, hiatal**
- Collis gastropasty: origin and evolution (Adler) 1990;50:839-42,CL
- Iatrogenic paraesophageal hiatus hernia (Streitz & Ellis) 1990;50:446-9\*
- Hibernoma**
- Mediastinal hibernoma, a rare tumor (Ahn & Harvey) 1990;50:828-30,CR
- Histiocytoma**
- Malignant fibrous histiocytoma of the trachea (Randleman, Unger, & Mansour) 1990;50:458-9,CR
- Histoplasmosis**
- Left recurrent laryngeal nerve paralysis: an unusual presentation of histoplasmosis (Gilbert, Murray, & others) 1990;50:987-8,CR
- Sclerosing mediastinitis: improved management with histoplasmosis titer and ketoconazole (Urschel, Razzuk, & others) 1990;50:215-21\*
- Historical vignette**
- A practical mechanical respirator, 1929: the "iron lung" (Meyer) 1990;50:490-3,CL
- Homografts.** See Transplantation, homologous.
- How to do it**
- Alternate method for revascularization of the posterior lateral coronary artery (Bolling & Kirsh) 1990;50:838,HW
- Batrial transseptal approach in case of difficult exposure to the mitral valve (Deloche, Acar, & others) 1990;50:318-9,HW
- Diuresis in hemodynamically compromised patients: continuous furosemide infusion (Magovern & Magovern) 1990;50:482-4,HW
- Easy cardioplegia delivery, aortic venting, and reperfusion technique (Kauten) 1990;50:833-5,HW
- Easy dissection of hard and thickened pericardium on constrictive pericarditis (Oku, Sawada, & others) 1990;50:998-9,HW
- A fiber-optic retractor for harvesting the internal mammary artery (Angelini & Azzu) 1990;50:314-5,HW
- Hemostatic technique for internal mammary artery anastomotic bleeding (Bhattacharyya, Trivedi, & others) 1990;50:316-7,HW
- Improved cannulation method for extracorporeal membrane oxygenation (Read, St. Cyr, & others) 1990;50:670-1,HW
- Infant ECMO cannulation technique allowing preservation of carotid and jugular vessels (Karl, Iyer, & others) 1990;50:488-9,HW
- Mitral prosthetic replacement in small left atria (Campanella, Cameron, & Feilberg) 1990;50:836-7,HW
- Modified pericardial closure to protect cardiovascular structures during sternal reentry (Zapolanski, Fishman, & others) 1990;50:665-6,HW
- New technique for the arterial switch operation in difficult situations (Takeuchi & Katogi) 1990;50:1000-1,HW
- Operative insertion of a transvenous left atrial pressure monitoring line (Satur, Stubington, & others) 1990;50:1004-5,HW
- Platysma musculocutaneous flap for reconstruction of trachea in esophageal cancer (Sodeyama, Matsuo, & others) 1990;50:485-7,HW
- Rapid placement of the Hemopump and hemofiltration cannula (Duncan, Burnett, & others) 1990;50:667-9,HW
- Selective and adjustable pericardial flap to protect internal mammary artery grafts (González-Santos, Bastida, & others) 1990;50:995-7,HW
- Surgical repair of type II truncus arteriosus without a conduit (Sharma, Pilato, & Ott) 1990;50:479-81,HW
- Transatrial approach revisited (Khonsari & Sintek) 1990;50:1002-3,HW
- Use of the centrifugal flow pump for vena caval shunting (Moggio, Praeger, & others) 1990;50:146-8,HW
- Use of glue without graft replacement for type A dissections: a new surgical technique (Fabiani, Jebara, & others) 1990;50:143-5,HW
- A useful technique for closure of pulmonary lacerations (Fulton & Dickson) 1990;50:149-50,HW
- Human immunodeficiency virus**
- Risks of blood exposure to the cardiac surgical team (Pate) 1990;50:248-50\*
- Hydromorphone**
- Continuous epidural hydromorphone for postthoracotomy pain relief (Brodsky, Chaplan, & others) 1990;50:888-93\*
- Hypercalcemia**
- Acute hypercalcemic crisis after an open heart operation (Siclari, Herrmann, & Dralle) 1990;50:831-2,CR
- Hypersensitivity**
- Sternotomy infection: poor prediction by acute phase response and delayed hypersensitivity (Ulicny, Hiratzka, & others) 1990;50:949-58\*
- Hypertension**
- Paradoxical hypertension after repair of coarctation of the aorta: a review of its causes (Sealy) 1990;50:323-9,CV
- Reversibility of pulmonary artery hypertension in aortic stenosis after aortic valve replacement (Tracy, Proctor, & Hizny) 1990;50:89-93\*
- Hypoplasia**
- Cardiac transplantation for hypoplastic left heart syndrome: a modified technique (Backer, Idriss, & others) 1990;50:894-8\*
- Cardiac transplantation for neonates with hypoplastic left heart syndrome (Mayer) 1990;50:864-5,ED
- Hypothermia**
- Choreoathetosis after deep hypothermia without circulatory arrest (DeLeon, Ilbawi, & others) 1990;50:714-9\*



**Hypoxemia**

- Hypoxemia during cardiopulmonary bypass (Belcher & Jones) 1990;50:336,CP

**Imaging**

- Diagnostic imaging and surgical treatment of dumbbell tumors of the mediastinum (Ricci, Rendina, & others) 1990;50:586-9\*
- Intraoperative ultrasonic imaging of the ascending aorta in ischemic heart disease (Ohtaki, Itoh, & others) 1990;50:539-42\*
- Subaortic obstruction: intraoperative echocardiography as an adjunct to operation (Sreeram, Sutherland, & others) 1990;50:579-85\*

**Immunoassay**

- Complement activation with bubble and membrane oxygenators in aortocoronary bypass grafting (Videm, Fosse, & others) 1990;50:387-91\*

**Immunosuppression**

- Cardiac transplantation (Griffith) 1990;50:161-2,KR

**Infant**

- Cardiac transplantation for hypoplastic left heart syndrome: a modified technique (Backer, Idriss, & others) 1990;50:894-8\*
- Cardiac transplantation for neonates with hypoplastic left heart syndrome (Mayer) 1990;50:864-5,ED
- Combined repair of transposed great arteries and total anomalous pulmonary venous connection (Amodeo, Corno, & others) 1990;50:820-1,CR
- The concentration of calcium in neonatal cardioplegia (Zweng, Iannettoni, & others) 1990;50:262-7\*
- Correction of truncus arteriosus with truncal valvar stenosis or insufficiency using two homografts (Elkins, Steinberg, & others) 1990;50:728-33\*
- Critical aortic stenosis in the first month of life: surgical results in 26 infants (Karl, Sano, & others) 1990;50:105-9\*
- Infant ECMO cannulation technique allowing preservation of carotid and jugular vessels (Karl, Iyer, & others) 1990;50:488-9,HW
- Internal mammary artery bypass after the arterial switch operation (Rheuban, Kron, & Bulatovic) 1990;50:125-6,CR
- Internal mammary artery-to-pulmonary artery shunt in infants (Sakakibara, Hori, & others) 1990;50:857-8,CP
- Intramural ventricular fibroma in infancy: survival after partial excision in 2 patients (Ceithaml, Midgley, & others) 1990;50:471-2,CR
- Isolated left carotid artery in CHARGE association: diagnosis and repair (Ghalili, Issenberg, & others) 1990;50:130-2,CR
- Myocardial protection by retrograde cardioplegia in arterial switch operation (Yonenaga, Yasui, & others) 1990;50:238-42\*
- Norwood operation for univentricular heart with subaortic stenosis in the neonate (Tchervenkova, Béland, & others) 1990;50:822-5,CR
- Operative insertion of a transvenous left atrial pressure monitoring line (Satur, Stubington, & others) 1990;50:1004-5,HW
- Prognostic determinants in extracorporeal membrane oxygenation for respiratory failure in newborns (Weber, Connors, & others) 1990;50:720-3\*
- Relief of tracheal compression by aortopexy (Clevenger, Othersen, & Smith) 1990;50:524-9\*
- Sternotomy infections in infants (Stahl & Kopf) 1990;50:337,CP; Reply (Terranova & Crawford) 1990;50:337,CP

- Surgical repair of type II truncus arteriosus without a conduit (Sharma, Pilato, & Ott) 1990;50:479-81,HW

**Infarction**

- Postinfarction ventricular septal defect repair: retrospective thoughts and historical perspectives (Daggett) 1990;50:1006-9,CL

**Infection**

- Air contamination in open heart surgery with disposable coveralls, gowns, and drapes (Verkkala, Mäkelä, & others) 1990;50:757-61\*
- Antimicrobial prophylaxis for open heart operations (Miedzinski, Callaghan, & others) 1990;50:800-7\*
- Descending necrotizing mediastinitis (Horowitz, Sosa, & Lickstein) 1990;50:859-60,CP
- Esophageal perforation in a patient with acquired immunodeficiency syndrome (Adkins, Raccuia, & Acinapura) 1990;50:299-300,CR
- Infection and Cell-Saver use (Nessly) 1990;50:509-10,CP
- Management of empyema thoracis (Ali & Unruh) 1990;50:355-9\*
- Sternotomy infection: poor prediction by acute phase response and delayed hypersensitivity (Ulicny, Hiratzka, & others) 1990;50:949-58\*
- Sternotomy infections in infants (Stahl & Kopf) 1990;50:337,CP; Reply (Terranova & Crawford) 1990;50:337,CP
- Treatment of postoperative infection of ascending aorta and transverse aortic arch, including use of viable omentum and muscle flaps (Coselli, Crawford, & others) 1990;50:868-81\*
- Thoracoplasty: current application to the infected pleural space (Horrigan & Snow) 1990;50:695-9\*
- Tuberculosis (Pomerantz) 1990;50:498-9,KR
- Use of potentially infected donor hearts for cardiac transplantation (Lammermeier, Sweeney, & others) 1990;50:222-5\*

**Injuries**

- Disruption of a modified Blalock-Taussig shunt by rapid deceleration injury (Joyce & McGrath) 1990;50:124,CR
- Mid-descending aortic traumatic aneurysms (Rabinsky, Sidhu, & Wagner) 1990;50:155-60,CT
- Pharyngoesophageal perforation after blunt neck trauma (Niezgoda, McMenamin, & Graeber) 1990;50:615-7\*
- Systemic arterial air embolism in penetrating lung injury (Estrera, Pass, & Platt) 1990;50:257-61\*
- Tracheal and main bronchial disruptions after blunt chest trauma: presentation and management (Baumgartner, Sheppard, & others) 1990;50:569-74\*

**Intensive care unit**

- Complications after cardiac operations in patients with severe pulmonary impairment (Bevelacqua, Garrigan, & others) 1990;50:602-6\*
- Selective monitoring of patients with suspected blunt cardiac injury (Reif, Justice, & others) 1990;50:530-3\*

**Intraaortic balloon**

- Origins of intraaortic balloon pumping (Kantrowitz) 1990;50:672-4,CL

**Ischemia**

- Cardioplegia-induced damage to ischemic immature myocardium is independent of oxygen availability (Baker, Boerboom, & Olinger) 1990;50:934-9\*
- Intraoperative ultrasonic imaging of the ascending aorta in ischemic heart disease (Ohtaki, Itoh, & others) 1990;50:539-42\*
- Long-term amiodarone administration protects against global myocardial ischemia (Karlson, Hopkins, & others) 1990;50:575-8\*

Polytetrafluoroethylene graft for spontaneous coronary dissection: 7-year follow-up (McCullough, Abel, & Rubenstein) 1990;50:663-4,CR

**Jehovah's Witness.** See Heart surgery.

#### **Job's syndrome**

Job's syndrome: a rare cause of recurrent lung abscess in childhood (Lui & Inculet) 1990;50:992-4,CR

#### **Kawasaki disease**

Coronary revascularization in a child with Kawasaki disease: use of right gastroepiploic artery (Takeuchi, Gomi, & others) 1990;50:294-6,CR

Presumed Kawasaki disease resulting in multiple coronary artery aneurysms in an adult (Brevard & Smith) 1990;50:291-3,CR

#### **Ketoconazole**

Sclerosing mediastinitis: improved management with histoplasmosis titer and ketoconazole (Urschel, Razzuk, & others) 1990;50:215-21\*

#### **Key references**

Cardiac transplantation (Griffith) 1990;50:161-2,KR  
Coarctation of the aorta (van Son) 1990;50:852-3,KR  
Tuberculosis (Pomerantz) 1990;50:498-9,KR

#### **Laryngeal nerve**

Left recurrent laryngeal nerve paralysis: an unusual presentation of histoplasmosis (Gilbert, Murray, & others) 1990;50:987-8,CR

#### **Laser**

Neodymium:YAG laser and brachytherapy in the management of inoperable bronchogenic carcinoma (Miller & Phillips) 1990;50:190-6\*

Thoracoscopic treatment of spontaneous pneumothorax using carbon dioxide laser (Wakabayashi, Brenner, & others) 1990;50:786-90\*

#### **Leiomyoma**

Primary mediastinal leiomyoma (Shaffer, Pugatch, & Sugarbaker) 1990;50:301-2,CR

#### **Leukocytes**

Leukocyte depletion results in excellent heart-lung function after 12 hours of storage (Pillai, Bando, & others) 1990;50:211-4\*

#### **Lidocaine**

Myocardial preservation using lidocaine blood cardioplegia (Fiore, Naunheim, & others) 1990;50:771-5\*

#### **Life support care**

Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Delius, Zwischenberger, & others) 1990;50:791-5\*

#### **Ligation**

Individual ligation technique (Meyer) 1990;50:1023,CP

#### **Liver**

Liver transplantation with atrioatrial anastomosis for Budd-Chiari syndrome (Carrel, Decurtins, & others) 1990;50:658-60,CR

#### **Lung**

Decreased vascular compliance after reimplantation of the left lower lobe in young pigs (Johnson, Teague, & others) 1990;50:277-80\*

Determinants of pulmonary function in patients undergoing coronary bypass operations (Shapira, Zabatino, & others) 1990;50:268-73\*

Individual ligation technique (Meyer) 1990;50:1023,CP

Systemic arterial air embolism in penetrating lung injury (Es-trera, Pass, & Platt) 1990;50:257-61\*

#### **Lung disease**

Job's syndrome: a rare cause of recurrent lung abscess in childhood (Lui & Inculet) 1990;50:992-4,CR

Long-term results of operation for non-small cell lung cancer in the elderly (Ishida, Yokoyama, & others) 1990;50:919-22\*

Strategy for lymphadenectomy in lung cancer three centimeters or less in diameter (Ishida, Yano, & others) 1990;50:708-13\*

Surgical management of pulmonary metastatic leiomyosarcoma with gross endobronchial extension (Warren, Bleck, & others) 1990;50:739-42\*

#### **Lung neoplasm**

Chest wall recurrence of lung cancer after transthoracic fine needle aspiration biopsy (Hix) 1990;50:1020-1,CP

Congenital tracheoesophageal fistula associated with carcinoma of the lung in an adult (Campbell & Salisbury) 1990;50:978-9,CR

Resection of the superior vena cava for primary lung cancer: 5 years' survival (Inoue, Shohtsu, & others) 1990;50:661-2,CR

Role of postoperative radiation therapy in stage IIIa non-small cell lung cancer (Astudillo & Conill) 1990;50:618-23\*

#### **Lung transplantation**

Organ procurement for pulmonary transplantation (Ribet & Pruvot) 1990;50:335,CP; Reply (Griffith) 1990;50:335-6,CP

Oxygen free radical scavengers decrease reperfusion injury in lung transplantation (Detterbeck, Keagy, & others) 1990;50:204-10\*

Tension pneumopericardium as a complication of single-lung transplantation (Cochrane, Mitchell, & others) 1990;50:808-10,CR

#### **Lymphadenopathy**

Strategy for lymphadenectomy in lung cancer three centimeters or less in diameter (Ishida, Yano, & others) 1990;50:708-13\*

#### **Magnetic resonance imaging**

Choice of surgical clips for mammary artery take-down (Hovaguimian & Floten) 1990;50:856,CP; Reply (Gold) 1990;50:856-7,CP

Diagnostic imaging and surgical treatment of dumbbell tumors of the mediastinum (Ricci, Rendina, & others) 1990;50:586-9\*

Scimitar syndrome: cine magnetic resonance imaging demonstration of anomalous pulmonary venous drainage (Baxter, McFadden, & others) 1990;50:121-3,CR

#### **Mammary artery**

Combined internal mammary artery graft for coronary artery revascularization (Bakay, Akçevin, & others) 1990;50:553-6\*

A fiber-optic retractor for harvesting the internal mammary artery (Angelini & Azzu) 1990;50:314-5,HW

Five-year results of coronary bypass grafting for patients older than 70 years: role of internal mammary artery (Azariades, Fessler, & others) 1990;50:940-5\*

Flow capacity of the human retrograde internal mammary artery: surgical considerations (González-Santos, Bastida, & others) 1990;50:360-6\*

Hemostatic technique for internal mammary artery anastomotic bleeding (Bhattacharyya, Trivedi, & others) 1990;50:316-7,HW



**Mammary artery (cont'd)**

- Inadequate flow of the internal mammary artery: another complication of sternal overretraction (Jebara, Acker, & others) 1990;50:336-7,CP
- Internal mammary artery bypass after the arterial switch operation (Rheuban, Kron, & Bulatovic) 1990;50:125-6\*
- Internal mammary artery graft to pulmonary vasculature fistula: a cause of recurrent angina (Johnson, Schmaltz, & others) 1990;50:297-8,CR
- Internal mammary artery marker (Kyger) 1990;50:333-4,CP
- Internal mammary artery revascularization in the patient on long-term renal dialysis (Blakeman, Sullivan, & others) 1990;50:776-8\*
- Pharmacological response of internal mammary artery and gastroepiploic artery (Koike, Suma, & others) 1990;50:384-6\*
- Selective and adjustable pericardial flap to protect internal mammary artery grafts (González-Santos, Bastida, & others) 1990;50:995-7,HW
- Steal phenomenon caused by a parallel branch of the internal mammary artery (Schmid, Heublein, & others) 1990;50:463-4,CR

**Mediastinitis**

- Descending necrotizing mediastinitis (Horowitz, Sosa, & Lickstein) 1990;50:859-60,CP
- Sclerosing mediastinitis: improved management with histoplasmosis titer and ketoconazole (Urschel, Razzuk, & others) 1990;50:215-21\*

**Mediastinum**

- Acute symptoms due to a huge duplication cyst ruptured into the esophagus (Nahakara, Fujii, & others) 1990;50:309-11,CR
- Computed tomography in selecting patients for mediastinoscopy (Van Schil) 1990;50:163,CP; Reply (Thermann) 1990;50:163,CP
- Diagnostic imaging and surgical treatment of dumbbell tumors of the mediastinum (Ricci, Rendina, & others) 1990;50:586-9\*
- Efficacy and benefit of mediastinal computed tomography (Gaer & Goldstraw) 1990;50:508,CP
- Esophagobronchial fistula and mediastinal tuberculosis (Raghu & Dillard) 1990;50:647-9,CR
- Extended en bloc resection of a primary mediastinal parathyroid carcinoma (Putnam, Schantz, & others) 1990;50:138-40,CR
- Left superior vena cava: a pitfall in computed tomographic diagnosis with surgical implications (Wong & Goldstraw) 1990;50:656-7,CR
- Mediastinal hibernoma, a rare tumor (Ahn & Harvey) 1990;50:828-30,CR
- Primary mediastinal leiomyoma (Shaffer, Pugatch, & Sugarbaker) 1990;50:301-2,CR
- Retrotracheal mediastinal goiter with contralateral extension (Ribet) 1990;50:684,CP; Reply (Van Schil) 1990;50:684,CP
- Silastic prosthesis plombage for right postpneumectomy syndrome (Riveron, Adams, & others) 1990;50:465-6,CR

**Medtronic-Hall valve**

- Clinical experience with the Medtronic-Hall valve prosthesis (Keenan, Armitage, & others) 1990;50:748-53\*
- Clinical performance of St. Jude and Medtronic-Hall prostheses: a randomized comparative study (Antunes) 1990;50:743-7\*
- Eight years' experience with the Medtronic-Hall valve prosthesis (Vallejo, Gonzalez-Santos, & others) 1990;50:429-36\*

- The Medtronic-Hall valve: frequently used, seldom reported (Starek) 1990;50:346-7,ED

**Membrane**

- Membranotomy for Budd-Chiari syndrome (Victor, Jayanthi, & Madanagopalan) 1990;50:512-3,CP

**Mesothelioma**

- Intraoperative photodynamic therapy for malignant mesothelioma (Pass, Tochner, & others) 1990;50:687-8,CP

**Metastases**

- Squamous carcinoma metastatic to the sternum (D'Orazio, Naunheim, & others) 1990;50:984-6,CR
- Strategy for lymphadenectomy in lung cancer three centimeters or less in diameter (Ishida, Yano, & others) 1990;50:708-13\*
- Surgical management of pulmonary metastatic leiomyosarcoma with gross endobronchial extension (Warren, Bleck, & others) 1990;50:739-42\*

**Mitral valve**

- Artificial mitral valve chordae: experimental and clinical experience (Zussa, Frater, & others) 1990;50:367-73\*
- Biatial transeptal approach in case of difficult exposure to the mitral valve (Deloche, Acar, & others) 1990;50:318-9,HW
- Circumflex artery ventricular fistula and pseudoaneurysm after mitral reoperation (Sutter, Goldman, & others) 1990;50:826-7,CR
- Influence of prosthetic design on durability of the Liotta porcine valve in the mitral position (Bortolotti, Milano, & others) 1990;50:734-8\*
- Mitral prosthetic replacement in small left atria (Campanella, Cameron, & Feilberg) 1990;50:836-7,HW
- Polytetrafluoroethylene posterior annuloplasty for mitral regurgitation (Fundarò, Salati, & others) 1990;50:165-6,CP; Reply (Cosgrove) 1990;50:166,CP
- Repair of flail anterior leaflets of tricuspid and mitral valves by cusp remodeling (Sutlic, Schmid, & Borst) 1990;50:927-30\*
- Severe hemolysis after incomplete mitral valve repair (Wilson, Rath, & others) 1990;50:136-7,CR
- Ultrasonic debridement during mitral valve reconstruction for calcified mitral stenosis (Nakano, Mitsuno, & others) 1990;50:923-6\*

**Monitoring**

- Operative insertion of a transvenous left atrial pressure monitoring line (Satur, Stubington, & others) 1990;50:1004-5,HW
- Selective monitoring of patients with suspected blunt cardiac injury (Reif, Justice, & others) 1990;50:530-3\*

**Morbidity**

- Pleuropulmonary morbidity: internal thoracic artery versus saphenous vein graft (Hurlbut, Myers, & others) 1990;50:959-64\*

**Mortality**

- Clinical experience with the Medtronic-Hall valve prosthesis (Keenan, Armitage, & others) 1990;50:748-53\*
- Clinical performance of St. Jude and Medtronic-Hall prostheses: a randomized comparative study (Antunes) 1990;50:743-7\*
- Cor triatriatum: clinical presentation and surgical results in 12 patients (Rodefeld, Brown, & others) 1990;50:562-8\*
- Critical aortic stenosis in the first month of life: surgical results in 26 infants (Karl, Sano, & others) 1990;50:105-9\*
- Extension of donor criteria in cardiac transplantation: surgical risk versus supply-side economics (Sweeney, Lammermeier, & others) 1990;50:7-11\*
- Late results of aortic valvotomy for congenital valvar aortic stenosis (DeBoer, Robbins, & others) 1990;50:69-73\*

- Long-term results of operation for non-small cell lung cancer in the elderly (Ishida, Yokoyama, & others) 1990;50:919-22\*
- Relief of tracheal compression by aortopexy (Clevenger, Othersen, & Smith) 1990;50:524-9\*
- Reoperations on heart valve prostheses: an analysis of operative risks and late results (Pansini, Ottino, & others) 1990;50:590-6\*
- Results in 104 patients undergoing bronchoplastic procedures for bronchial lesions (Watanabe, Shimizu, & others) 1990;50:607-14\*
- Severe aortic stenosis in octogenarians: is operation an acceptable alternative? (Deleuze, Loisanse, & others) 1990;50:226-9\*
- Uncomfortable issues (Edmunds) 1990;50:173-4,ED
- Multivariate analysis**
- Analysis of prognostic factors and clinicopathological staging of thymoma (Pescarmona, Rendina, & others) 1990;50:534-8\*
- Myasthenia gravis**
- Analysis of prognostic factors and clinicopathological staging of thymoma (Pescarmona, Rendina, & others) 1990;50:534-8\*
- Coexisting thymic carcinoid tumor and thymoma (Mizuno, Masaoka, & others) 1990;50:650-2,CR
- Recurrent thymoma in patients with myasthenia gravis (Ohmi & Ohuchi) 1990;50:243-7\*
- Thymectomy for myasthenia gravis (Jaretski) 1990;50:686,CP; Reply (Mulder) 1990;50:687,CP
- Mycoses**
- Management of mycotic rupture of the ascending aorta after heart-lung transplantation (Albes, Haverich, & others) 1990;50:982-3,CR
- Myocardial infarction**
- Postinfarction ventricular septal defect repair: retrospective thoughts and historical perspectives (Daggett) 1990;50:1006-9,CL
- Myocardial revascularization**
- Combined internal mammary artery graft for coronary artery revascularization (Bakay, Akçevin, & others) 1990;50:553-6\*
- Five-year results of coronary bypass grafting for patients older than 70 years: role of internal mammary artery (Azariades, Fessler, & others) 1990;50:940-5\*
- Internal mammary artery-to-pulmonary artery shunt in infants (Sakakibara, Hori & others) 1990;50:857-8,CP
- Selective and adjustable pericardial flap to protect internal mammary artery grafts (González-Santos, Bastida, & others) 1990;50:995-7,HW
- Myocardium**
- Cardioplegia-induced damage to ischemic immature myocardium is independent of oxygen availability (Baker, Boerboom, & Olinger) 1990;50:934-9\*
- Improved myocardial preservation during cold storage using substrate enhancement (Haan, Lazar, & others) 1990;50:80-5\*
- Myocardial preservation using lidocaine blood cardioplegia (Fiore, Naunheim, & others) 1990;50:771-5\*
- Myocardial protection by retrograde cardioplegia in arterial switch operation (Yonenaga, Yasui, & others) 1990;50:238-42\*
- Preservation of myocardial function and biochemistry after blood and oxygenated crystalloid cardioplegia during cardiac arrest (Coetzee, Roussouw, & others) 1990;50:230-7\*
- Myxoma**
- Surgical treatment of cardiac myxomas: long-term results (Sellke, Lemmer, & others) 1990;50:557-61\*
- Neck**
- Pharyngoesophageal perforation after blunt neck trauma (Niezgoda, McMenamin, & Graeber) 1990;50:615-7\*
- Neoplasms**
- Behavior of small bronchial carcinomas (Shields) 1990;50:691-2,ED
- Carcinoid tumors of the thymus (Economopoulos, Lewis, & others) 1990;50:58-61\*
- Cardiopulmonary cystosarcoma (Shuman) 1990;50:510,CP; Reply (Tyers) 1990;50:510-11,CP
- Chest wall recurrence of lung cancer after transthoracic fine needle aspiration biopsy (Hix) 1990;50:1020-1,CP
- Coexisting thymic carcinoid tumor and thymoma (Mizuno, Masaoka, & others) 1990;50:650-2,CR
- Congenital tracheoesophageal fistula associated with carcinoma of the lung in an adult (Campbell & Salisbury) 1990;50:978-9,CR
- Diagnostic imaging and surgical treatment of dumbbell tumors of the mediastinum (Ricci, Rendina, & others) 1990;50:586-9\*
- Extended en bloc resection of a primary mediastinal parathyroid carcinoma (Putnam, Schantz, & others) 1990;50:138-40,CR
- Fatal ectopic thymoma (Jansen & Johnson) 1990;50:469-70,CR
- Giant chest wall tumor resulting from tissue reaction to foreign bodies (Fukai, Sano, & others) 1990;50:754-6\*
- Intramural ventricular fibroma in infancy: survival after partial excision in 2 patients (Ceithaml, Midgley, & others) 1990;50:471-2,CR
- Intrathoracic tumors of the vagus nerve (Dabir, Piccione, & Kittle) 1990;50:494-7,CT
- Long-term results of operation for non-small cell lung cancer in the elderly (Ishida, Yokoyama, & others) 1990;50:919-22\*
- Malignant fibrous histiocytoma (Laas & Schmid) 1990;50:164,CP; Reply (Lazar) 1990;50:165,CP; (Craddock) 1990;50:165,CP
- Malignant fibrous histiocytoma of the trachea (Randleman, Unger, & Mansour) 1990;50:458-9,CR
- Malignant thymoma presenting as intracardiac tumor and superior vena caval obstruction (Airan, Sharma, & others) 1990;50:989-91,CR
- Mediastinal hibernoma, a rare tumor (Ahn & Harvey) 1990;50:828-30,CR
- Neodymium:YAG laser and brachytherapy in the management of inoperable bronchogenic carcinoma (Miller & Phillips) 1990;50:190-6\*
- Platysma musculocutaneous flap for reconstruction of trachea in esophageal cancer (Sodeyama, Matsuo, & others) 1990;50:485-7,HW
- Recurrent thymoma in patients with myasthenia gravis (Ohmi & Ohuchi) 1990;50:243-7\*
- Resection of the superior vena cava for primary lung cancer: 5 years' survival (Inoue, Shohtsu, & others) 1990;50:661-2,CR
- Results in 104 patients undergoing bronchoplastic procedures for bronchial lesions (Watanabe, Shimizu, & others) 1990;50:607-14\*
- Role of postoperative radiation therapy in stage IIIa non-small cell lung cancer (Astudillo & Conill) 1990;50:618-23\*
- Squamous carcinoma metastatic to the sternum (D'Orazio, Naunheim, & others) 1990;50:984-6,CR



**Neoplasms (cont'd)**

- Strategy for lymphadenectomy in lung cancer three centimeters or less in diameter (Ishida, Yano, & others) 1990;50:708-13\*
- Successful Fontan-type operation for a nonresectable right ventricular tumor (Dietl) 1990;50:814-6,CR
- Superior vena caval reconstruction using autologous pericardium (Piccione, Faber, & Warren) 1990;50:417-9\*
- Symposium on thoracic surgical oncology 1990;50:500-7,RE
- Use of the centrifugal flow pump for vena caval shunting (Moggio, Praeger, & others) 1990;50:146-8,HW
- Vagal schwannoma (Heitmiller, Labs, & Lipsett) 1990;50:811-3,CR

**Neoplastic endocrine-like syndromes**

- Bronchial and thymic carcinoids and the ectopic ACTH syndrome (Odell) 1990;50:5-6,ED
- Management of the ectopic ACTH syndrome due to thoracic carcinoids (Pass, Doppman, & others) 1990;50:52-7\*

**Nerve**

- Left recurrent laryngeal nerve paralysis: an unusual presentation of histoplasmosis (Gilbert, Murray, & others) 1990;50:987-8,CR

**Neurons**

- Modification of supraventricular tachyarrhythmias by stimulating atrial neurons (Ali, Butler, & others) 1990;50:251-6\*

**Neutrophils**

- Complement activation and lung permeability during cardiopulmonary bypass (Tennenberg, Clardy, & others) 1990;50:597-601\*

**Omentum**

- Aortobronchial fistula after an aortic operation (Ishizaki, Tada, & others) 1990;50:975-7,CR
- Management of aortobronchial fistula with graft replacement and omentopexy (Paull & Keagy) 1990;50:972-4,CR
- Use of pedicled omental flap in treatment of empyema (Shirakusa, Ueda, & others) 1990;50:420-4\*

**Oncology**

- Symposium on thoracic surgical oncology 1990;50:500-7,RE

**Organ preservation**

- Endothelial cell toxicity of solid-organ preservation solutions (von Oppell, Pfeiffer, & others) 1990;50:902-10\*

**Organ procurement**

- Organ procurement for pulmonary transplantation (Ribet, Pruvot) 1990;50:335,CP; Reply (Griffith) 1990;50:335-6,CP

**Oxygen**

- Cardioplegia-induced damage to ischemic immature myocardium is independent of oxygen availability (Baker, Boerboom, & Olinger) 1990;50:934-9\*
- Oxygen free radical scavengers decrease reperfusion injury in lung transplantation (Detterbeck, Keagy, & others) 1990;50:204-10\*
- Oxygenated cardioplegia: blood is a many splendored thing (Buckberg) 1990;50:175-7,ED
- Preservation of myocardial function and biochemistry after blood and oxygenated crystalloid cardioplegia during cardiac arrest (Coetzee, Roussouw, & others) 1990;50:230-7\*
- Prevention of paraplegia during aortic operations (Wadouh, Wadouh, & others) 1990;50:543-52\*

**Oxygenation**

- Improved cannulation method for extracorporeal membrane oxygenation (Read, St. Cyr, & others) 1990;50:670-1,HW
- Prognostic determinants in extracorporeal membrane oxygenation for respiratory failure in newborns (Weber, Connors, & others) 1990;50:720-3\*

**Oxygenator**

- Blood conservation in cardiac surgery (Scott, Kessler, & Wernly) 1990;50:843-51,CV
- Complement activation with bubble and membrane oxygenators in aortocoronary bypass grafting (Videm, Fosse, & others) 1990;50:387-91\*
- Oxygenator failure (Crowley & Brown) 1990;50:859-60,CP

**Pain**

- Continuous epidural hydromorphone for postthoracotomy pain relief (Brotsky, Chaplan, & others) 1990;50:888-93\*

**Paralysis**

- Diaphragmatic plication (Ribet) 1990;50:855-6,CP
- Left recurrent laryngeal nerve paralysis: an unusual presentation of histoplasmosis (Gilbert, Murray, & others) 1990;50:987-8,CR

**Paraplegia**

- Paraplegia associated with thoracotomy (Walker) 1990;50:178,ED
- Paraplegia associated with the use of oxidized cellulose in posterolateral thoracotomy incisions (Short) 1990;50:288-90\*
- Prevention of paraplegia during aortic operations (Wadouh, Wadouh, & others) 1990;50:543-52\*

**Parathyroid**

- Acute hypercalcemic crisis after an open heart operation (Siclari, Herrmann, & Dralle) 1990;50:831-2,CR
- Extended en bloc resection of a primary mediastinal parathyroid carcinoma (Putnam, Schantz, & others) 1990;50:138-40,CR

**Perfusion**

- Certification of perfusionists (Fosburg, Anderson, & others) 1990;50:508,CP
- Easy cardioplegia delivery, aortic venting, and reperfusion technique (Kauten) 1990;50:833-5,HW
- Role of perfusion pressure and flow in major organ dysfunction after cardiopulmonary bypass (Slogoff, Reul, & others) 1990;50:911-8\*

**Pericardium**

- Easy dissection of hard and thickened pericardium on constrictive pericarditis (Oku, Sawada, & others) 1990;50:998-9,HW
- Modified pericardial closure to protect cardiovascular structures during sternal reentry (Zapolanski, Fishman, & others) 1990;50:665-6,HW
- Pericardial window: mechanisms of efficacy (Sugimoto, Little, & others) 1990;50:442-5\*
- Selective and adjustable pericardial flap to protect internal mammary artery grafts (González-Santos, Bastida, & others) 1990;50:995-7,HW
- Superior vena caval reconstruction using autologous pericardium (Piccione, Faber, & Warren) 1990;50:417-9\*

**Permeability**

- Complement activation and lung permeability during cardiopulmonary bypass (Tennenberg, Clardy, & others) 1990;50:597-601\*
- Vein graft permeability (Kennedy, Tedgui, & Piwnica) 1990;50:334,CP; Reply (Finck, Mashburn, & others) 1990;50:334,CP

**Pharmacology**

- Pharmacological response of internal mammary artery and gastroepiploic artery (Koike, Suma, & others) 1990;50:384-6\*

**Pharynx**

Pharyngoesophageal perforation after blunt neck trauma (Niezgoda, McMenamin, & Graeber) 1990;50:615-7\*

**Photochemotherapy**

Intraoperative photodynamic therapy for malignant mesothelioma (Pass, Tochner, & others) 1990;50:687-8,CP

**Plasmapheresis**

Acute preoperative plasmapheresis and established blood conservation techniques (Boldt, Kling, & others) 1990;50:62-8\*

**Plastics**

Air contamination in open heart surgery with disposable coveralls, gowns, and drapes (Verkkala, Mäkelä, & others) 1990;50:757-61\*

Plastic struts for delayed sternal closure (Majid) 1990;50:1021,CP

**Platysma**

Platysma musculocutaneous flap for reconstruction of trachea in esophageal cancer (Sodeyama, Matsuo, & others) 1990;50:485-7,HW

**Pleura**

Pleuropulmonary morbidity: internal thoracic artery versus saphenous vein graft (Hurlbut, Myers, & others) 1990;50:959-64\*

Thoracoplasty: current application to the infected pleural space (Horrigan & Snow) 1990;50:695-9\*

**Pneumonectomy**

Individual ligation technique (Meyer) 1990;50:1023,CP

Right pneumonectomy syndrome in infancy treated with an expandable prosthesis (Rasch, Grover, & others) 1990;50:127-9,CR

Silastic prosthesis plombage for right postpneumonectomy syndrome (Riveron, Adams, & others) 1990;50:465-6,CR

**Pneumopericardium**

Tension pneumopericardium as a complication of single-lung transplantation (Cochrane, Mitchell, & others) 1990;50:808-10,CR

**Pneumothorax**

Thoracoscopy and talc poudrage for pneumothoraces and effusions (Daniel, Tribble, & Rodgers) 1990;50:186-9\*

Thoracoscopic treatment of spontaneous pneumothorax using carbon dioxide laser (Wakabayashi, Brenner, & others) 1990;50:786-90\*

**Poliomyelitis**

A practical mechanical respirator, 1929: the "iron lung" (Meyer) 1990;50:490-3,CL

**Polydioxanone**

Results of aortic anastomoses made under tension using polydioxanone suture (Haluck, Richenbacher, & others) 1990;50:392-5\*

**Polytetrafluoroethylene**

Artificial mitral valve chordae: experimental and clinical experience (Zussa, Frater, & others) 1990;50:367-73\*

Experimental study of a new porous tracheal prosthesis (Jorge, Ramos, & others) 1990;50:281-7\*

Polytetrafluoroethylene graft for spontaneous coronary dissection: 7-year follow-up (McCullough, Abel, & Rubenstein) 1990;50:663-4,CR

Polytetrafluoroethylene posterior annuloplasty for mitral regurgitation (Fundarò, Salati, & others) 1990;50:165-6,CP; Reply (Cosgrove) 1990;50:166,CP

Tracheal reconstruction with polytetrafluoroethylene graft in dogs (Cull, Lally, & others) 1990;50:899-901\*

**Postoperative care**

Continuous epidural hydromorphone for postthoracotomy pain relief (Brodsky, Chaplan, & others) 1990;50:888-93\*

Postirradiation pericardectomy (Eckstein) 1990;50:685,CP

Postoperative drainage and pericardial effusion (Bryan & Angelini) 1990;50:330,CP; Reply (Smulders, Moulijn, & Koolen) 1990;50:330,CP

Role of postoperative radiation therapy in stage IIIa non-small cell lung cancer (Astudillo & Conill) 1990;50:618-23\*

Timing of operation for aortic regurgitation: relation to postoperative contractile state (Taniguchi, Nakano, & others) 1990;50:779-85\*

Treatment of postoperative infection of ascending aorta and transverse aortic arch, including use of viable omentum and muscle flaps (Coselli, Crawford, & others) 1990;50:868-81\*

**Postoperative complications**

Air contamination in open heart surgery with disposable coveralls, gowns, and drapes (Verkkala, Mäkelä, & others) 1990;50:757-61\*

Choreoathetosis after deep hypothermia without circulatory arrest (DeLeon, Ilbawi, & others) 1990;50:714-9\*

Complications after cardiac operations in patients with severe pulmonary impairment (Bevelacqua, Garritan, & others) 1990;50:602-6\*

Long-term results of operation for non-small cell lung cancer in the elderly (Ishida, Yokoyama, & others) 1990;50:919-22\*

Role of perfusion pressure and flow in major organ dysfunction after cardiopulmonary bypass (Slogoff, Reul, & others) 1990;50:911-8\*

**Postoperative period**

Cardiac transplantation (Griffith) 1990;50:161-2,KR

Disruption of a modified Blalock-Taussig shunt by rapid deceleration injury (Joyce & McGrath) 1990;50:124,CR

Long-term results of total repair of tetralogy of Fallot in childhood (Horneffer, Zahka, & others) 1990;50:179-85\*

Low-dose preoperative aspirin therapy, postoperative blood loss, and transfusion requirements (Taggart, Siddiqui, & Wheatley) 1990;50:425-8\*

**Preoperative care**

Acute preoperative plasmapheresis and established blood conservation techniques (Boldt, Kling, & others) 1990;50:62-8\*

Initial report of the Veterans Administration preoperative risk assessment study for cardiac surgery (Grover, Hammermeister, & others) 1990;50:12-28\*

Low-dose preoperative aspirin therapy, postoperative blood loss, and transfusion requirements (Taggart, Siddiqui, & Wheatley) 1990;50:425-8\*

Management of Jehovah's Witness patients (Kyger & Blakes-tad) 1990;50:167,CP

**Pressure**

Operative insertion of a transvenous left atrial pressure monitoring line (Satur, Stubington, & others) 1990;50:1004-5,HW

**Prognosis**

Analysis of prognostic factors and clinicopathological staging of thymoma (Pescarmona, Rendina, & others) 1990;50:534-8\*

Prognostic determinants in extracorporeal membrane oxygenation for respiratory failure in newborns (Weber, Connors, & others) 1990;50:720-3\*

Pulmonary resection combined with cardiac operations (Can-ver, Bhayana, & others) 1990;50:796-9\*



**Prognosis (cont'd)**

Surgical treatment of cardiac myxomas: long-term results (Sellke, Lemmer, & others) 1990;50:557-61\*

**Prophylaxis**

Antimicrobial prophylaxis for open heart operations (Miedzinski, Callaghan, & others) 1990;50:800-7\*

Prophylactic digitalization for thoracotomy: a reassessment (Ritchie, Bowe, & Gibbons) 1990;50:86-8\*

**Prostaglandins**

Reversal of protamine-induced catastrophic pulmonary vasoconstriction by prostaglandin E<sub>1</sub> (Whitman, Martel, & others) 1990;50:303-5,CR

**Prosthesis**

Catastrophic thrombosis of porcine aortic bioprostheses (Baciewicz, del Rio, & others) 1990;50:817-9,CR

Clinical experience with the Medtronic-Hall valve prosthesis (Keenan, Armitage, & others) 1990;50:748-53\*

Clinical performance of St. Jude and Medtronic-Hall prostheses: a randomized comparative study (Antunes) 1990;50:743-7\*

Eight years' experience with the Medtronic-Hall valve prosthesis (Vallejo, Gonzalez-Santos, & others) 1990;50:429-36\*

Experimental study of a new porous tracheal prosthesis (Jorge, Ramos, & others) 1990;50:281-7\*

Influence of prosthetic design on durability of the Liotta porcine valve in the mitral position (Bortolotti, Milano, & others) 1990;50:734-8\*

Long-term prosthesis-related and sudden cardiac-related complications after valve replacement for aortic stenosis (Lund, Pilegaard, & others) 1990;50:396-406\*

Mitral prosthetic replacement in small left atria (Campanella, Cameron, & Feilberg) 1990;50:836-7,HW

Reoperations on heart valve prostheses: an analysis of operative risks and late results (Pansini, Ottino, & others) 1990;50:590-6\*

Right pneumonectomy syndrome in infancy treated with an expandable prosthesis (Rasch, Grover, & others) 1990;50:127-9,CR

Silastic prosthesis plumbage for right postpneumonectomy syndrome (Riveron, Adams, & others) 1990;50:465-6,CR

Use of the variable-length intraluminal sutureless graft (Graver & Tyras) 1990;50:624-30\*

**Pulmonary**

Acquired benign esophagorespiratory fistula: report of 16 consecutive cases (Gerzić, Rakić, & Randjelović) 1990;50:724-7\*

Bilateral pulmonary nodules caused by *Dirofilaria immitis* (Bradham, Locklair, & Grimbail) 1990;50:312-3,CR

Cardiopulmonary cystosarcoma (Shuman) 1990;50:510,CP; Reply (Tyers) 1990;50:510-11,CP

Combined repair of transposed great arteries and total anomalous pulmonary venous connection (Amodeo, Corno, & others) 1990;50:820-1,CR

Complement activation and lung permeability during cardiopulmonary bypass (Tennenberg, Clardy, & others) 1990;50:597-601\*

Complications after cardiac operations in patients with severe pulmonary impairment (Bevelacqua, Garritan, & others) 1990;50:602-6\*

Decreased vascular compliance after reimplantation of the left lower lobe in young pigs (Johnson, Teague, & others) 1990;50:277-80\*

Determinants of pulmonary function in patients undergoing coronary bypass operations (Shapira, Zabatino, & others) 1990;50:268-73\*

Feasibility of reversible pulmonary artery banding: early results and intermediate-term follow-up (Epstein, Duncan, & others) 1990;50:94-7\*

Individual ligation technique (Meyer) 1990;50:1023,CP

Internal mammary artery graft to pulmonary vasculature fistula: a cause of recurrent angina (Johnson, Schmaltz, & others) 1990;50:297-8,CR

Intraoperative bronchial aspiration of ruptured pulmonary hydatid cysts (Saidi & Rezvan-Nobahar) 1990;50:631-6\*

Long-term results of operation for non-small cell lung cancer in the elderly (Ishida, Yokoyama, & others) 1990;50:919-22\*

Long-term results of total repair of tetralogy of Fallot in childhood (Horneffer, Zahka, & others) 1990;50:179-85\*

Morphology of pulmonary atresia with intact ventricular septum in patients dying after operation (van de Wal, Smith, & others) 1990;50:90-102\*

New approach to the surgical treatment of Swyer-James-MacLeod syndrome (Vishnevsky & Nikoladze) 1990;50:103-4\*

Pleuropulmonary morbidity: internal thoracic artery versus saphenous vein graft (Hurlbut, Myers, & others) 1990;50:959-64\*

Pulmonary resection combined with cardiac operations (Canver, Bhayana, & others) 1990;50:796-9\*

Reversal of protamine-induced catastrophic pulmonary vasoconstriction by prostaglandin E<sub>1</sub> (Whitman, Martel, & others) 1990;50:303-5,CR

Reversibility of pulmonary artery hypertension in aortic stenosis after aortic valve replacement (Tracy, Proctor, & Hizny) 1990;50:89-93\*

Scimitar syndrome: cine magnetic resonance imaging demonstration of anomalous pulmonary venous drainage (Baxter, McFadden, & others) 1990;50:121-3,CR

Strategy for lymphadenectomy in lung cancer three centimeters or less in diameter (Ishida, Yano, & others) 1990;50:708-13\*

Surgical management of pulmonary metastatic leiomyosarcoma with gross endobronchial extension (Warren, Bleck, & others) 1990;50:739-42\*

Thoracoplasty: current application to the infected pleural space (Horrigan & Snow) 1990;50:695-9\*

Thoracoscopy and talc poudrage for pneumothoraces and effusions (Daniel, Tribble, & Rodgers) 1990;50:186-9\*

Thoracoscopic treatment of spontaneous pneumothorax using carbon dioxide laser (Wakabayashi, Brenner, & others) 1990;50:786-90\*

A useful technique for closure of pulmonary lacerations (Fulton & Dickson) 1990;50:149-50,HW

**Pulmonary artery**

Efficacy of pulmonary artery versus left ventricular venting (Garibaldi) 1990;50:685,CP; Reply (Mitchell) 1990;50:686,CP

Swan-Ganz catheter-induced massive hemoptysis and pulmonary artery false aneurysm (Feng, Singh, & others) 1990;50:644-6,CR

**Pumps**

Beware centrifugal pumps: not a one-way street, but a potentially dangerous "siphon" (Kolff, McClurken, & Alpern) 1990;50:512,CP

Origins of intraaortic balloon pumping (Kantrowitz) 1990;50:672-4,CL

Rapid placement of the Hemopump and hemofiltration cannula (Duncan, Burnett, & others) 1990;50:667-9,HW

Use of the centrifugal flow pump for vena caval shunting (Moggio, Praeger, & others) 1990;50:146-8,HW

**Punctures**

- Risks of blood exposure to the cardiac surgical team (Pate) 1990;50:248-50\*

**Rabbit**

- Cardioplegia-induced damage to ischemic immature myocardium is independent of oxygen availability (Baker, Boerboom, & Olinger) 1990;50:934-9\*
- Experimental study of a new porous tracheal prosthesis (Jorge, Ramos, & others) 1990;50:281-7\*
- Improved myocardial preservation during cold storage using substrate enhancement (Haan, Lazar, & others) 1990;50:80-5\*

**Radiation**

- Postirradiation pericardectomy (Eckstein) 1990;50:685,CP
- Role of postoperative radiation therapy in stage IIIa non-small cell lung cancer (Astudillo & Conill) 1990;50:618-23\*

**Rats**

- Long-term amiodarone administration protects against global myocardial ischemia (Karlson, Hopkins, & others) 1990;50:575-8\*

**Regurgitation**

- Timing of operation for aortic regurgitation: relation to postoperative contractile state (Taniguchi, Nakano, & others) 1990;50:779-85\*

**Reimplantation**

- Decreased vascular compliance after reimplantation of the left lower lobe in young pigs (Johnson, Teague, & others) 1990;50:277-80\*

**Renal**

- Internal mammary artery revascularization in the patient on long-term renal dialysis (Blakeman, Sullivan, & others) 1990;50:776-8\*

**Reoperation**

- Circumflex artery ventricular fistula and pseudoaneurysm after mitral reoperation (Sutter, Goldman, & others) 1990;50:826-7,CR
- Critical aortic stenosis in the first month of life: surgical results in 26 infants (Karl, Sano, & others) 1990;50:105-9\*
- Management of mycotic rupture of the ascending aorta after heart-lung transplantation (Albes, Haverich, & others) 1990;50:982-3,CR
- Reappraisal of localized resection for subvalvar aortic stenosis (Stewart, Merrill, & others) 1990;50:197-203\*
- Reoperations on heart valve prostheses: an analysis of operative risks and late results (Pansini, Ottino, & others) 1990;50:590-6\*

**Report**

- Symposium on thoracic surgical oncology 1990;50:500-7,RE

**Respiration**

- Prognostic determinants in extracorporeal membrane oxygenation for respiratory failure in newborns (Weber, Connors, & others) 1990;50:720-3\*
- Respiratory function after thoracic operations (Hallfeldt, Knoefel, & others) 1990;50:688,CP

**Respirators**

- A practical mechanical respirator, 1929: the "iron lung" (Meyer) 1990;50:490-3,HI

**Resuscitation**

- Extension of donor criteria in cardiac transplantation: surgical risk versus supply-side economics (Sweeney, Lammermeier, & others) 1990;50:7-11\*

**Revascularization**

- Alternate method for revascularization of the posterior lateral coronary artery (Bolling & Kirsh) 1990;50:838,HW

- Coronary revascularization in a child with Kawasaki disease: use of right gastroepiploic artery (Takeuchi, Gomi, & others) 1990;50:294-6,CR

- Easy cardioplegia delivery, aortic venting, and reperfusion technique (Kauten) 1990;50:833-5,HW

- Internal mammary artery revascularization in the patient on long-term renal dialysis (Blakeman, Sullivan, & others) 1990;50:776-8\*

- Modified pericardial closure to protect cardiovascular structures during sternal reentry (Zapolanski, Fishman, & others) 1990;50:665-6,HW

- Myocardial preservation using lidocaine blood cardioplegia (Fiore, Naunheim, & others) 1990;50:771-5\*

- Surgical standby for coronary angioplasty (Ullyot) 1990;50:3-4,ED

**Risk factors**

- Five-year results of coronary bypass grafting for patients older than 70 years: role of internal mammary artery (Azariades, Fessler, & others) 1990;50:940-5\*

- Initial report of the Veterans Administration preoperative risk assessment study for cardiac surgery (Grover, Hammermeister, & others) 1990;50:12-28\*

- Risks of blood exposure to the cardiac surgical team (Pate) 1990;50:248-50\*

- Severe aortic stenosis in octogenarians: is operation an acceptable alternative? (Deleuze, Loisanse, & others) 1990;50:226-9\*

- Uncomfortable issues (Edmunds) 1990;50:173-4,ED

**Sarcoma**

- Surgical management of pulmonary metastatic leiomyosarcoma with gross endobronchial extension (Warren, Bleck, & others) 1990;50:739-42\*

**Scavengers**

- Oxygen free radical scavengers decrease reperfusion injury in lung transplantation (Detterbeck, Keagy, & others) 1990;50:204-10\*

**Schwannoma**

- Vagal schwannoma (Heitmiller, Labs, & Lipsett) 1990;50:811-3,CR

**Scimitar syndrome**

- Scimitar syndrome: cine magnetic resonance imaging demonstration of anomalous pulmonary venous drainage (Baxter, McFadden, & others) 1990;50:121-3,CR

**Sclerosing**

- Sclerosing mediastinitis: improved management with histoplasmosis titer and ketoconazole (Urschel, Razzuk, & others) 1990;50:215-21\*

**Sheep**

- Artificial mitral valve chordae: experimental and clinical experience (Zussa, Frater, & others) 1990;50:367-73\*

**Shock**

- Effects of left ventricular assist for cardiogenic shock on cardiac function and organ blood flow distribution (Sukehiro & Flameng) 1990;50:374-83\*

- Improved cannulation method for extracorporeal membrane oxygenation (Read, St. Cyr, & others) 1990;50:670-1,HW

**Shunt**

- Disruption of a modified Blalock-Taussig shunt by rapid deceleration injury (Joyce & McGrath) 1990;50:124,CR

- Liver transplantation with atrioatrial anastomosis for Budd-Chiari syndrome (Carrel, Decurtins, & others) 1990;50:658-60,CR

- Superior vena caval reconstruction using autologous pericardium (Piccione, Faber, & Warren) 1990;50:417-9\*



**Silicone elastomers**

Silastic prosthesis plombage for right postpneumonectomy syndrome (Riveron, Adams, & others) 1990;50:465-6,CR

**Smoking**

Long-term results of operation for non-small cell lung cancer in the elderly (Ishida, Yokoyama, & others) 1990;50:919-22\*

**The Society of Thoracic Surgeons**

Program, 1990 Interim Meeting, 1990;50:168-72;338-42

Twenty-seventh Annual Meeting program 1990;50:1024-35

**The Southern Thoracic Surgical Association**

Program, Thirty-seventh Annual Meeting 1990;50:515-8

**Spinal cord**

Prevention of paraplegia during aortic operations (Wadouh, Wadouh, & others) 1990;50:543-52\*

**Spine**

Thoracic spinal fractures and aortic rupture: a significant and fatal association (Sturm, Hines, & Perry) 1990;50:931-3\*

**Spleen**

Coronary artery bypass grafting without splenectomy (Bowman) 1990;50:330-1,CP; Reply (Koike) 1990;50:331,CP

**Staging**

Analysis of prognostic factors and clinicopathological staging of thymoma (Pescarmona, Rendina, & others) 1990;50:534-8\*

**Staphylococcus**

Antimicrobial prophylaxis for open heart operations (Miedzinski, Callaghan, & others) 1990;50:800-7\*

Job's syndrome: a rare cause of recurrent lung abscess in childhood (Lui & Inculet) 1990;50:992-4,CR

**Steal**

Steal phenomenon caused by a parallel branch of the internal mammary artery (Schmid, Heublein, & others) 1990;50:463-4,CR

**Stenosis**

Correction of truncus arteriosus with truncal valvar stenosis or insufficiency using two homografts (Elkins, Steinberg, & others) 1990;50:728-33\*

Critical aortic stenosis in the first month of life: surgical results in 26 infants (Karl, Sano, & others) 1990;50:105-9\*

Late results of aortic valvotomy for congenital valvar aortic stenosis (DeBoer, Robbins, & others) 1990;50:69-73\*

Long-term prosthesis-related and sudden cardiac-related complications after valve replacement for aortic stenosis (Lund, Pilegaard, & others) 1990;50:396-406\*

Norwood operation for univentricular heart with subaortic stenosis in the neonate (Tchervenkova, Béland, & others) 1990;50:822-5,CR

Reappraisal of localized resection for subvalvar aortic stenosis (Stewart, Merrill, & others) 1990;50:197-203\*

Results of aortic anastomoses made under tension using polydioxanone suture (Haluck, Richenbacher, & others) 1990;50:392-5\*

Reversibility of pulmonary artery hypertension in aortic stenosis after aortic valve replacement (Tracy, Proctor, & Hizny) 1990;50:89-93\*

Subvalvar aortic stenosis: timing of operation (Douville & Sade), 1990;50:29-34\*

Tubular supraaortic stenosis: replacement of ascending aorta in a young patient (Gargiulo, Zannini, & others) 1990;50:467-8,CR

Ultrasonic debridement during mitral valve reconstruction for calcified mitral stenosis (Nakano, Mitsuno, & others) 1990;50:923-6\*

Uncomfortable issues (Edmunds) 1990;50:173-4,ED

**Sternotomy**

Sternotomy infection: poor prediction by acute phase response and delayed hypersensitivity (Ulicny, Hiratzka, & others) 1990;50:949-58\*

**Sternum**

Plastic struts for delayed sternal closure (Majid) 1990;50:1021,CP

Squamous carcinoma metastatic to the sternum (D'Orazio, Naunheim, & others) 1990;50:984-6,CR

**Storage**

Leukocyte depletion results in excellent heart-lung function after 12 hours of storage (Pillai, Bando, & others) 1990;50:211-4\*

**Subaortic**

Subaortic obstruction: intraoperative echocardiography as an adjunct to operation (Sreeram, Sutherland, & others) 1990;50:579-85\*

**Substrates**

Improved myocardial preservation during cold storage using substrate enhancement (Haan, Lazar, & others) 1990;50:80-5\*

**Suction**

Double-barrel suction device (Robicsek) 1990;50:509,CP

**Surgical equipment**

Choice of surgical clips for mammary artery take-down (Hovaguimian & Floten) 1990;50:856,CP; Reply (Gold) 1990;50:856-7,CP

Double-barrel suction device (Robicsek) 1990;50:509,CP

A fiber-optic retractor for harvesting the internal mammary artery (Angelini & Azzu) 1990;50:314-5,HW

**Surgical flaps**

Platysma musculocutaneous flap for reconstruction of trachea in esophageal cancer (Sodeyama, Matsuo, & others) 1990;50:485-7,HW

Use of pedicled omental flap in treatment of empyema (Shirakusa, Ueda, & others) 1990;50:420-4\*

**Survival**

Clinical experience with portable cardiopulmonary bypass in cardiac arrest patients (Hartz, LoCicero, & others) 1990;50:437-41\*

Clinical performance of St. Jude and Medtronic-Hall prostheses: a randomized comparative study (Antunes) 1990;50:743-7\*

Eight years' experience with the Medtronic-Hall valve prosthesis (Vallejo, Gonzalez-Santos, & others) 1990;50:429-36\*

Intramural ventricular fibroma in infancy: survival after partial excision in 2 patients (Ceithaml, Midgley, & others) 1990;50:471-2,CR

Long-term results of operation for non-small cell lung cancer in the elderly (Ishida, Yokoyama, & others) 1990;50:919-22\*

Morphology of pulmonary atresia with intact ventricular septum in patients dying after operation (van de Wal, Smith, & others) 1990;50:90-102\*

Pulmonary resection combined with cardiac operations (Canver, Bhayana, & others) 1990;50:796-9\*

Resection of the superior vena cava for primary lung cancer: 5 years' survival (Inoue, Shohtsu, & others) 1990;50:661-2,CR

Results in 104 patients undergoing bronchoplastic procedures for bronchial lesions (Watanabe, Shimizu, & others) 1990;50:607-14\*

Role of postoperative radiation therapy in stage IIIa non-small cell lung cancer (Astudillo & Conill) 1990;50:618-23\*

Strategy for lymphadenectomy in lung cancer three centimeters or less in diameter (Ishida, Yano, & others) 1990;50:708-13\*

#### Sutures

Results of aortic anastomoses made under tension using polydioxanone suture (Haluck, Richenbacher, & others) 1990;50:392-5\*

Sutureless ring graft replacement of ascending aorta and aortic arch (Oz, Ashton, & others) 1990;50:74-9\*

#### Swine

Decreased vascular compliance after reimplantation of the left lower lobe in young pigs (Johnson, Teague, & others) 1990;50:277-80\*

#### Swyer-James-MacLeod syndrome

New approach to the surgical treatment of Swyer-James-MacLeod syndrome (Vishnevsky & Nikoladze) 1990;50:103-4\*

#### Tachycardia

Modification of supraventricular tachyarrhythmias by stimulating atrial neurons (Ali, Butler, & others) 1990;50:251-6\*

Successful surgical treatment of incessant automatic atrial tachycardia with atrial aneurysm (Miyamura, Nakagomi, & others) 1990;50:476-8,CR

#### Talc

Thoracoscopy and talc poudrage for pneumothoraces and effusions (Daniel, Tribble, & Rodgers) 1990;50:186-9\*

#### Temperature

Choreoathetosis after deep hypothermia without circulatory arrest (DeLeon, Ilbawi, & others) 1990;50:714-9\*

Is systemic cooling essential for open heart surgery? (Victor & Kabeer) 1990;50:334-5,CP

#### Tetralogy of Fallot

Long-term results of total repair of tetralogy of Fallot in childhood (Horneffer, Zahka, & others) 1990;50:179-85\*

Repair of complete atrioventricular septal defect with tetralogy of Fallot (Ilbawi, Cua, & others) 1990;50:407-12\*

Variations within the fibrous skeleton and ventricular outflow tracts in tetralogy of Fallot (Howell, Ho, & others) 1990;50:450-7\*

#### Thoracic neoplasms

Management of the ectopic ACTH syndrome due to thoracic carcinoids (Pass, Doppman, & others) 1990;50:52-7\*

#### Thoracic surgery

Acquired benign esophagorespiratory fistula: report of 16 consecutive cases (Gerzić, Rakić, & Randjelović) 1990;50:724-7\*

Collis gastroplasty: origin and evolution (Adler) 1990;50:839-42,CL

Complete foregut duplication (Dresler, Patterson, & others) 1990;50:306-8,CR

Cor triatriatum: clinical presentation and surgical results in 12 patients (Rodefeld, Brown, & others) 1990;50:562-8\*

Diagnostic imaging and surgical treatment of dumbbell tumors of the mediastinum (Ricci, Rendina, & others) 1990;50:586-9\*

Empyema thoracis (Miller) 1990;50:343-4,ED

Extended en bloc resection of a primary mediastinal parathyroid carcinoma (Putnam, Schantz, & others) 1990;50:138-40,CR

Feasibility of reversible pulmonary artery banding: early results and intermediate-term follow-up (Epstein, Duncan, & others) 1990;50:94-7\*

Flow capacity of the human retrograde internal mammary artery: surgical considerations (González-Santos, Bastida, & others) 1990;50:360-6\*

Four years' experience with fibrin sealant in thoracic and cardiovascular surgery (Matthew, Spotnitz, & others) 1990;50:40-4\*

Intrathoracic tumors of the vagus nerve (Dabir, Piccione, & Kittle) 1990;50:494-7,CT

Management of empyema thoracis (Ali & Unruh) 1990;50:355-9\*

Modified pericardial closure to protect cardiovascular structures during sternal reentry (Zapolanski, Fishman, & others) 1990;50:665-6,HW

New approach to the surgical treatment of Swyer-James-MacLeod syndrome (Vishnevsky & Nikoladze) 1990;50:103-4\*

Pericardial window: mechanisms of efficacy (Sugimoto, Little, & others) 1990;50:442-5\*

Prevention of paraplegia during aortic operations (Wadouh, Wadouh, & others) 1990;50:543-52\*

Prophylactic digitalization for thoracotomy: a reassessment (Ritchie, Bowe, & Gibbons) 1990;50:86-8\*

Pulmonary resection combined with cardiac operations (Canver, Bhayana, & others) 1990;50:796-9\*

Repair of thoracic dissections (Hammond) 1990;50:330,CP

Respiratory function after thoracic operations (Hallfeldt, Knoefel, & others) 1990;50:688,CP

Results in 104 patients undergoing bronchoplastic procedures for bronchial lesions (Watanabe, Shimizu, & others) 1990;50:607-14\*

Retrotracheal goiter: a diagnostic and therapeutic problem (Waldron, Coffey, & others) 1990;50:133-5,CR

Sternotomy infections in infants (Stahl & Kopf) 1990;50:337,CP; Reply (Terranova & Crawford) 1990;50:337,CP

Subaortic obstruction: intraoperative echocardiography as an adjunct to operation (Sreeram, Sutherland, & others) 1990;50:579-85\*

Surgical management of chronic empyema: the role of thoracoplasty (Pairolero & Trastek) 1990;50:689-90,ED

Surgical management of pulmonary metastatic leiomyosarcoma with gross endobronchial extension (Warren, Bleck, & others) 1990;50:739-42\*

Surgical repair of type II truncus arteriosus without a conduit (Sharma, Pilato, & Ott) 1990;50:479-81,HW

Sutureless ring graft replacement of ascending aorta and aortic arch (Oz, Ashton, & others) 1990;50:74-9\*

Symposium on thoracic surgical oncology 1990;50:500-7,RE

Tracheal and main bronchial disruptions after blunt chest trauma: presentation and management (Baumgartner, Sheppard, & others) 1990;50:569-74\*

Traumatic bronchial rupture and other major thoracic injuries (Benfield) 1990;50:523,ED

Use of pedicled omental flap in treatment of empyema (Shirakusa, Ueda, & others) 1990;50:420-4\*

#### Thoracoplasty

Surgical management of chronic empyema: the role of thoracoplasty (Pairolero & Trastek) 1990;50:689-90,ED

Thoracoplasty: current application to the infected pleural space (Horrigán & Snow) 1990;50:695-9\*

#### Thoracoscopy

Thoracoscopy and talc poudrage for pneumothoraces and effusions (Daniel, Tribble, & Rodgers) 1990;50:186-9\*

Thoracoscopic treatment of spontaneous pneumothorax using carbon dioxide laser (Wakabayashi, Brenner, & others) 1990;50:786-90\*



**Thoracotomy**

- Acute symptoms due to a huge duplication cyst ruptured into the esophagus (Nahakara, Fujii, & others) 1990;50:309-11,CR
- Continuous epidural hydromorphone for postthoracotomy pain relief (Brodsky, Chaplan, & others) 1990;50:888-93\*
- Paraplegia associated with thoracotomy (Walker) 1990;50:178,ED
- Paraplegia associated with the use of oxidized cellulose in posterolateral thoracotomy incisions (Short) 1990;50:288-90\*

**Thorax**

- Chest wall recurrence of lung cancer after transthoracic fine needle aspiration biopsy (Hix) 1990;50:1020-1,CP
- Giant chest wall tumor resulting from tissue reaction to foreign bodies (Fukai, Sano, & others) 1990;50:754-6\*
- Thoracic spinal fractures and aortic rupture: a significant and fatal association (Sturm, Hines, & Perry) 1990;50:931-3\*
- Tracheal and main bronchial disruptions after blunt chest trauma: presentation and management (Baumgartner, Sheppard, & others) 1990;50:569-74\*

**Thromboembolism**

- Clinical experience with the Medtronic-Hall valve prosthesis (Keenan, Armitage, & others) 1990;50:748-53\*

**Thrombosis**

- Catastrophic thrombosis of porcine aortic bioprostheses (Baciewicz, del Rio, & others) 1990;50:817-9,CR

**Thymectomy**

- Thymectomy for myasthenia gravis (Jaretski) 1990;50:686,CP; Reply (Mulder) 1990;50:687,CP

**Thymoma**

- Analysis of prognostic factors and clinicopathological staging of thymoma (Pescarmona, Rendina, & others) 1990;50:534-8\*
- Assessing the prognosis of thymomas (Wick) 1990;50:521-2,ED
- Coexisting thymic carcinoid tumor and thymoma (Mizuno, Masaoka, & others) 1990;50:650-2,CR
- Fatal ectopic thymoma (Jansen & Johnson) 1990;50:469-70,CR
- Malignant thymoma presenting as intracardiac tumor and superior vena caval obstruction (Airan, Sharma, & others) 1990;50:989-91,CR
- Recurrent thymoma in patients with myasthenia gravis (Ohmi & Ohuchi) 1990;50:243-7\*

**Thymus**

- Bronchial and thymic carcinoids and the ectopic ACTH syndrome (Odell) 1990;50:5-6,ED
- Carcinoid tumors of the thymus (Economopoulos, Lewis, & others) 1990;50:58-61\*
- Coexisting thymic carcinoid tumor and thymoma (Mizuno, Masaoka, & others) 1990;50:650-2,CR

**Tissue donors**

- Extension of donor criteria in cardiac transplantation: surgical risk versus supply-side economics (Sweeney, Lammermeier, & others) 1990;50:7-11\*
- Use of potentially infected donor hearts for cardiac transplantation (Lammermeier, Sweeney, & others) 1990;50:222-5\*

**Titanium**

- Choice of surgical clips for mammary artery take-down (Hovaguimian & Floten) 1990;50:856,CP; Reply (Gold) 1990;50:856-7,CP

**Tomography**

- Acute symptoms due to a huge duplication cyst ruptured into the esophagus (Nakahara, Fujii, & others) 1990;50:309-11,CR

- Complete foregut duplication (Dresler, Patterson, & others) 1990;50:306-8,CR

- Computed tomography in selecting patients for mediastinoscopy (Van Schil) 1990;50:163,CP; Reply (Thermann) 1990;50:163,CP

- Efficacy and benefit of mediastinal computed tomography (Gaer & Goldstraw) 1990;50:508,CP

- Left superior vena cava: a pitfall in computed tomographic diagnosis with surgical implications (Wong & Goldstraw) 1990;50:656-7,CR

- Systemic venous aneurysms (Yokomise, Nakayama, & others) 1990;50:460-2,CR

**Toxicity**

- Endothelial cell toxicity of solid-organ preservation solutions (von Oppell, Pfeiffer, & others) 1990;50:902-10\*

**Trachea**

- Congenital tracheoesophageal fistula associated with carcinoma of the lung in an adult (Campbell & Salisbury) 1990;50:978-9,CR

- Experimental study of a new porous tracheal prosthesis (Jorge, Ramos, & others) 1990;50:281-7\*

- Malignant fibrous histiocytoma of the trachea (Randleman, Unger, & Mansour) 1990;50:458-9,CR

- Platysma musculocutaneous flap for reconstruction of trachea in esophageal cancer (Sodeyama, Matsuo, & others) 1990;50:485-7,HW

- Relief of tracheal compression by aortopexy (Clevenger, Othersen, & Smith) 1990;50:524-9\*

- Retrotracheal goiter: a diagnostic and therapeutic problem (Waldron, Coffey, & others) 1990;50:133-5,CR

- Tracheal and main bronchial disruptions after blunt chest trauma: presentation and management (Baumgartner, Sheppard, & others) 1990;50:569-74\*

- Tracheal reconstruction with polytetrafluoroethylene graft in dogs (Cull, Lally, & others) 1990;50:899-901\*

**Transfusion**

- Aspirin, blood loss, and transfusion (Gay) 1990;50:345,ED

- Guidelines for transfusion support in patients undergoing coronary artery bypass grafting (Goodnough, Johnston, & others) 1990;50:675-83,CV

- How should the risk of bank blood transfusion in open heart operations be minimized? (Santoli, Scrofani, & Santoli) 1990;50:1021-2,CP

- Low-dose preoperative aspirin therapy, postoperative blood loss, and transfusion requirements (Taggart, Siddiqui, & Wheatley) 1990;50:425-8\*

**Transplantation**

- Cardiac transplantation (Griffith) 1990;50:161-2,CR

- Cardiac transplantation for hypoplastic left heart syndrome: a modified technique (Backer, Idriss, & others) 1990;50:894-8\*

- Cardiac transplantation for neonates with hypoplastic left heart syndrome (Mayer) 1990;50:864-5,ED

- Cardioplegia for transplantation: failure of extracellular solution compared with Stanford or UW solution (Gott, Pan-Chih, & others) 1990;50:348-54\*

- Extension of donor criteria in cardiac transplantation: surgical risk versus supply-side economics (Sweeney, Lammermeier, & others) 1990;50:7-11\*

- Improved myocardial preservation during cold storage using substrate enhancement (Haan, Lazar, & others) 1990;50:80-5\*

- Liver transplantation with atrioatrial anastomosis for Budd-

- Chiari syndrome (Carrel, Decurtins, & others) 1990;50:658-60,CR
- Management of mycotic rupture of the ascending aorta after heart-lung transplantation (Albes, Haverich, & others) 1990;50:982-3,CR
- Organ procurement for pulmonary transplantation (Ribet & Pruvot) 1990;50:335,CP; Reply (Griffith) 1990;50:335-6,CP
- Oxygen free radical scavengers decrease reperfusion injury in lung transplantation (Detterbeck, Keagy, & others) 1990;50:204-10\*
- Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Delius, Zwischenberger, & others) 1990;50:791-5\*
- Tension pneumopericardium as a complication of single-lung transplantation (Cochrane, Mitchell, & others) 1990;50:808-10,CR
- Use of potentially infected donor hearts for cardiac transplantation (Lammermeier, Sweeney, & others) 1990;50:222-5\*
- Transplantation, homologous**
- Correction of truncus arteriosus with truncal valvar stenosis or insufficiency using two homografts (Elkins, Steinberg, & others) 1990;50:728-33\*
- Defining the limits of suitability of cardiac allografts (Guerraty & Wechsler) 1990;50:1-2,ED
- Transposition**
- Combined repair of transposed great arteries and total anomalous pulmonary venous connection (Amodeo, Corno, & others) 1990;50:820-1,CR
- Trauma**
- Medical management of acute traumatic rupture of the aorta (Walker & Pate) 1990;50:965-7\*
- Pharyngoesophageal perforation after blunt neck trauma (Niezgoda, McMenamin, & Graeber) 1990;50:615-7\*
- Selective monitoring of patients with suspected blunt cardiac injury (Reif, Justice, & others) 1990;50:530-3\*
- Tracheal and main bronchial disruptions after blunt chest trauma: presentation and management (Baumgartner, Sheppard, & others) 1990;50:569-74\*
- Traumatic bronchial rupture and other major thoracic injuries (Benfield) 1990;50:523
- Tricuspid valve**
- Repair of flail anterior leaflets of tricuspid and mitral valves by cusp remodeling (Sutlic, Schmid, & Borst) 1990;50:927-30\*
- Truncus arteriosus**
- Correction of truncus arteriosus with truncal valvar stenosis or insufficiency using two homografts (Elkins, Steinberg, & others) 1990;50:728-33\*
- Surgical repair of type II truncus arteriosus without a conduit (Sharma, Pilato, & Ott) 1990;50:479-81,HW
- Tuberculosis**
- Esophagobronchial fistula and mediastinal tuberculosis (Raghu & Dillard) 1990;50:647-9,CR
- Tuberculosis (Pomerantz) 1990;50:498-9,CR
- Ultrasonics**
- Intraoperative ultrasonic imaging of the ascending aorta in ischemic heart disease (Ohtaki, Itoh, & others) 1990;50:539-42\*
- Ultrasonic debridement during mitral valve reconstruction for calcified mitral stenosis (Nakano, Mitsuno, & others) 1990;50:923-6\*
- United States Veterans Administration**
- Initial report of the Veterans Administration preoperative risk assessment study for cardiac surgery (Grover, Hammermeister, & others) 1990;50:12-28\*
- Vagus nerve**
- Intrathoracic tumors of the vagus nerve (Dabir, Piccione, & Kittle) 1990;50:494-7,CT
- Vagal schwannoma (Heitmiller, Labs, & Lipsett) 1990;50:811-3,CR
- Valves**
- Artificial mitral valve chordae: experimental and clinical experience (Zussa, Frater, & others) 1990;50:367-73\*
- Development of an artificial heart valve (Björk) 1990;50:151-4,CL
- Eight years' experience with the Medtronic-Hall valve prosthesis (Vallejo, Gonzalez-Santos, & others) 1990;50:429-36\*
- Long-term prosthesis-related and sudden cardiac-related complications after valve replacement for aortic stenosis (Lund, Pilegaard, & others) 1990;50:396-406\*
- The Medtronic-Hall valve: frequently used, seldom reported (Starek) 1990;50:346-7,ED
- Reversibility of pulmonary artery hypertension in aortic stenosis after aortic valve replacement (Tracy, Proctor, & Hizny) 1990;50:89-93\*
- Variations within the fibrous skeleton and ventricular outflow tracts in tetralogy of Fallot (Howell, Ho, & others) 1990;50:450-7\*
- Valvoplasty**
- Ventricular perforation with valvoplasty (Aaron & Alyono) 1990;50:1022,CP; Reply (Robertson) 1990;50:1022-3,CP
- Valvotomy**
- Late results of aortic valvotomy for congenital valvar aortic stenosis (DeBoer, Robbins, & others) 1990;50:69-73\*
- Vascular surgery**
- Infant ECMO cannulation technique allowing preservation of carotid and jugular vessels (Karl, Iyer, & others) 1990;50:488-9,HW
- Vasoconstriction**
- Reversal of protamine-induced catastrophic pulmonary vasoconstriction by prostaglandin E<sub>1</sub> (Whitman, Martel, & others) 1990;50:303-5,CR
- Vasospasm**
- Cystic medionecrosis of the coronary arteries and fatal coronary vasospasm (Segal, Ratliff, & Cosgrove) 1990;50:653-5,CR
- Vein**
- Pleuropulmonary morbidity: internal thoracic artery versus saphenous vein graft (Hurlbut, Myers, & others) 1990;50:959-64\*
- Vein graft permeability (Kennedy, Tedgui, & Piwnica) 1990;50:334,CP; Reply (Finck, Mashburn, & others) 1990;50:334,CP
- Vena cava**
- Left superior vena cava: a pitfall in computed tomographic diagnosis with surgical implications (Wong & Goldstraw) 1990;50:656-7,CR
- Malignant thymoma presenting as intracardiac tumor and superior vena caval obstruction (Airan, Sharma, & others) 1990;50:989-91,CR
- Resection of the superior vena cava for primary lung cancer: 5 years' survival (Inoue, Shohtsu, & others) 1990;50:661-2,CR
- Superior vena caval reconstruction using autologous pericardium (Piccione, Faber, & Warren) 1990;50:417-9\*
- Systemic venous aneurysms (Yokomise, Nakayama, & others) 1990;50:460-2,CR
- Use of the centrifugal flow pump for vena caval shunting (Moggio, Praeger, & others) 1990;50:146-8,HW



**Wolff-Parkinson-White syndrome**

Surgical epicardial ablation of left ventricular pathway using sling exposure (Guiraudon, Klein, & others) 1990;50:968-71\*

Surgical treatment of Wolff-Parkinson-White syndrome (Ferguson) 1990;50:866-7, ED

**Wound healing**

Internal mammary artery revascularization in the patient on long-term renal dialysis (Blakeman, Sullivan, & others) 1990;50:776-8\*

Sternotomy infection: poor prediction by acute phase response and delayed hypersensitivity (Ulicny, Hiratzka, & others) 1990;50:949-58\*

